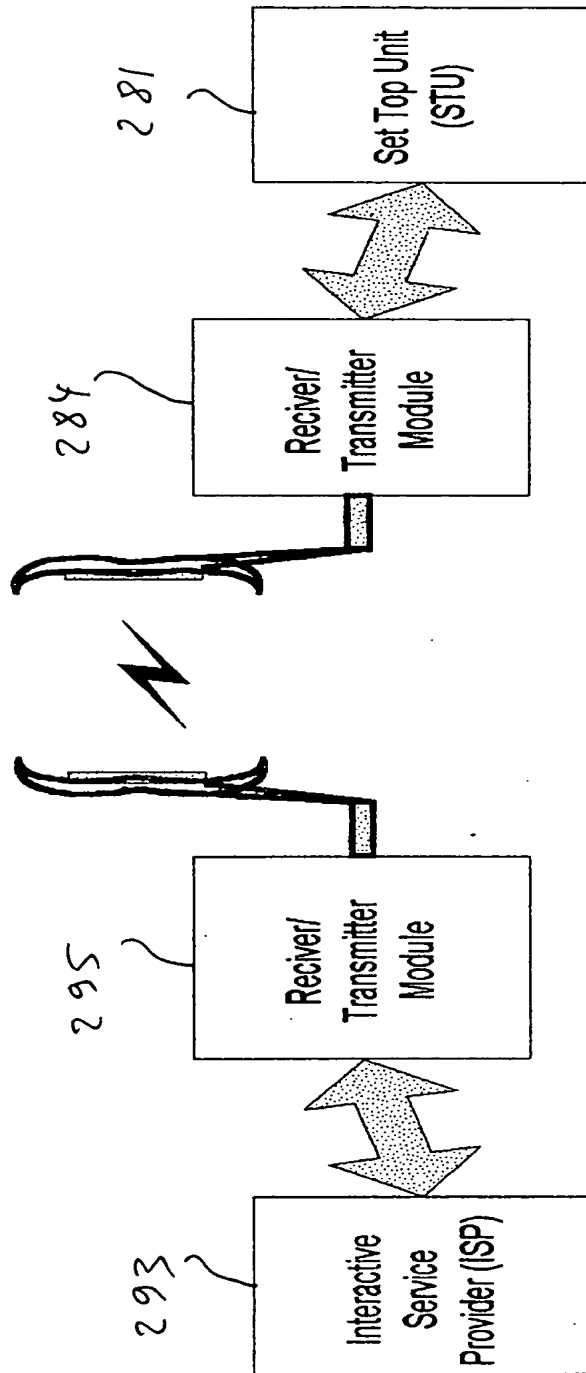


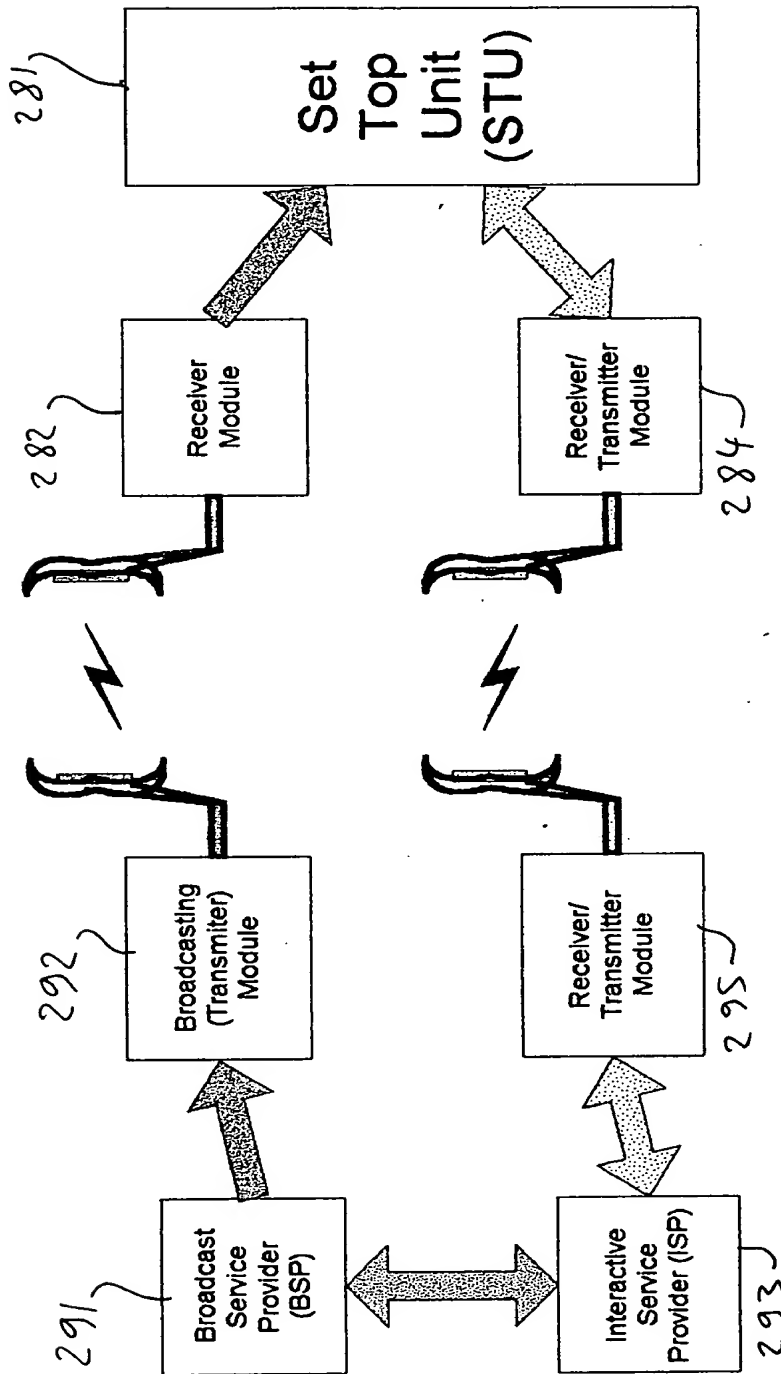
Fig. 1

- DownLink - DVBT
- UpLink - OFDMA/TDMA



- DownLink - DVBT
- UpLink - In Band OFDMA/TDMA

Fig. 2



- DownLink - DVBT, Out Of Band OFDM/TDM
- UpLink - OFDMA/TDMA

Fig. 3

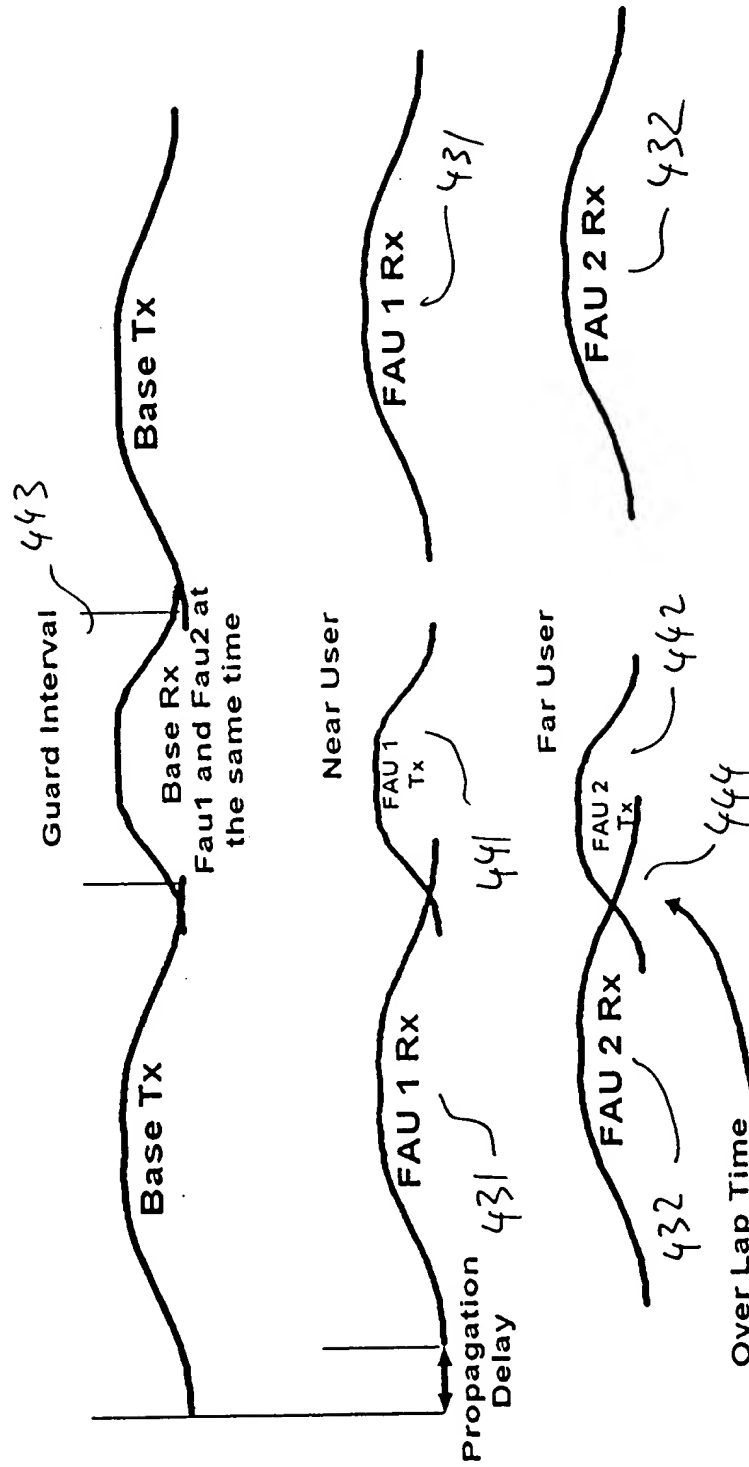


Fig. 4

UpLink

DownLink

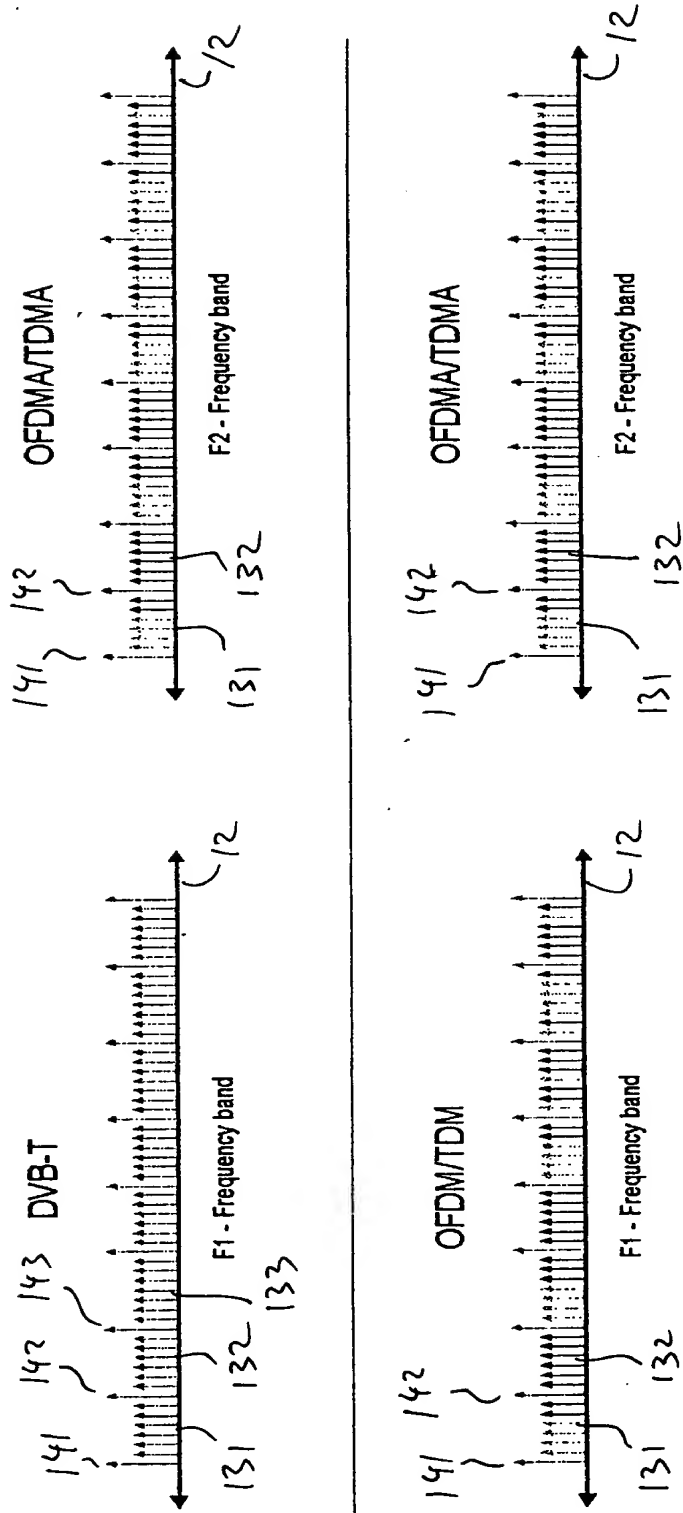


Fig. 5

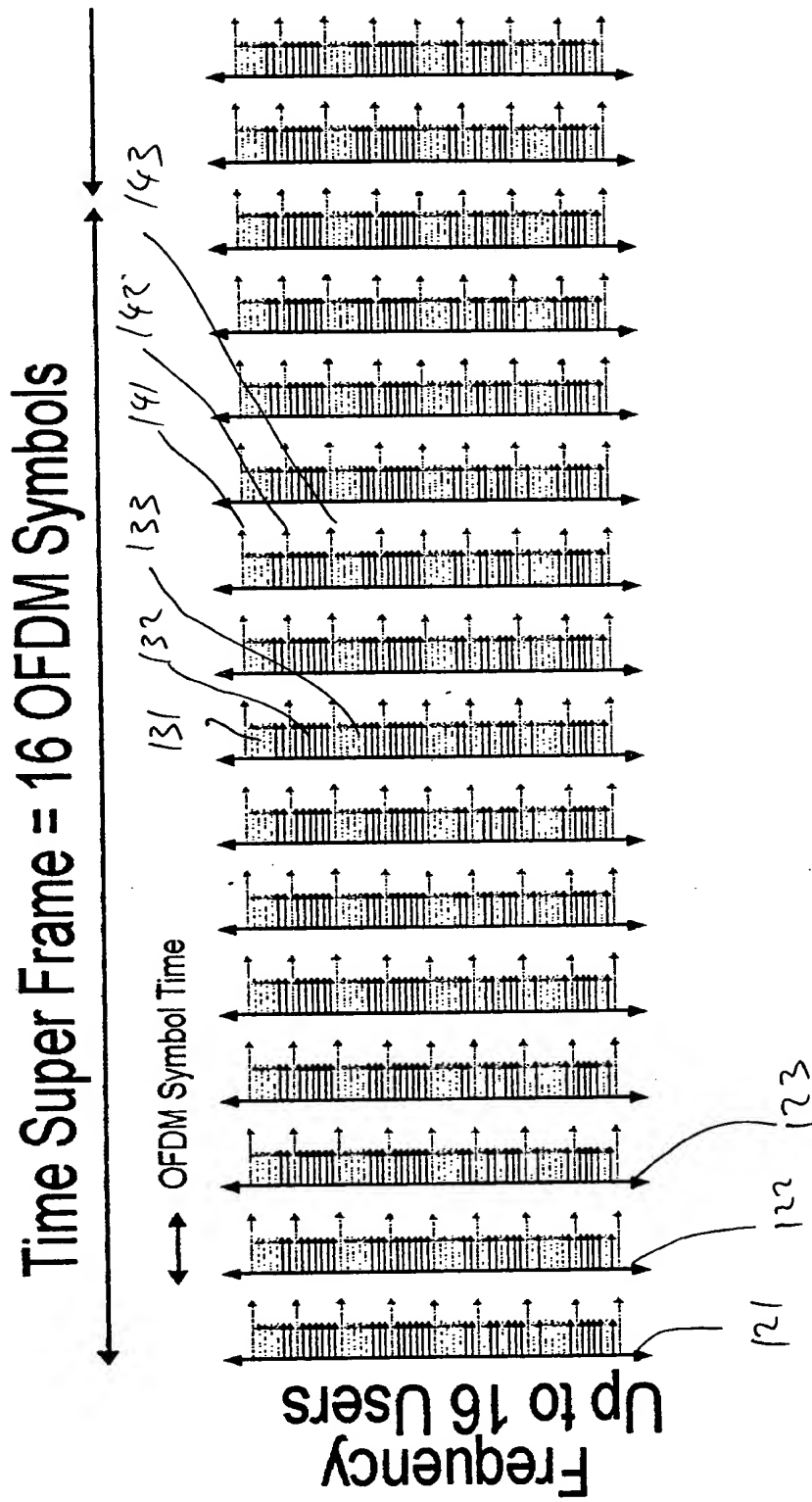


Fig. 6

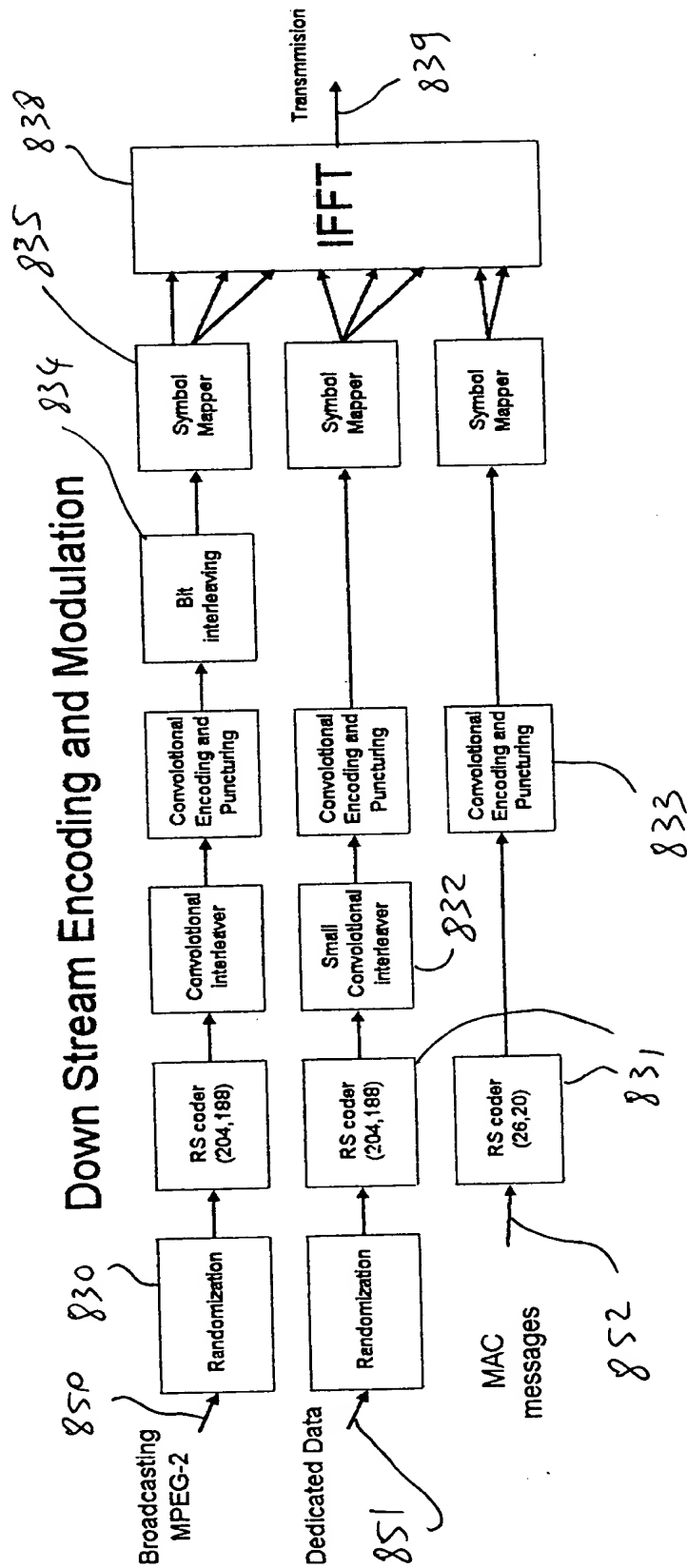


Fig. 7

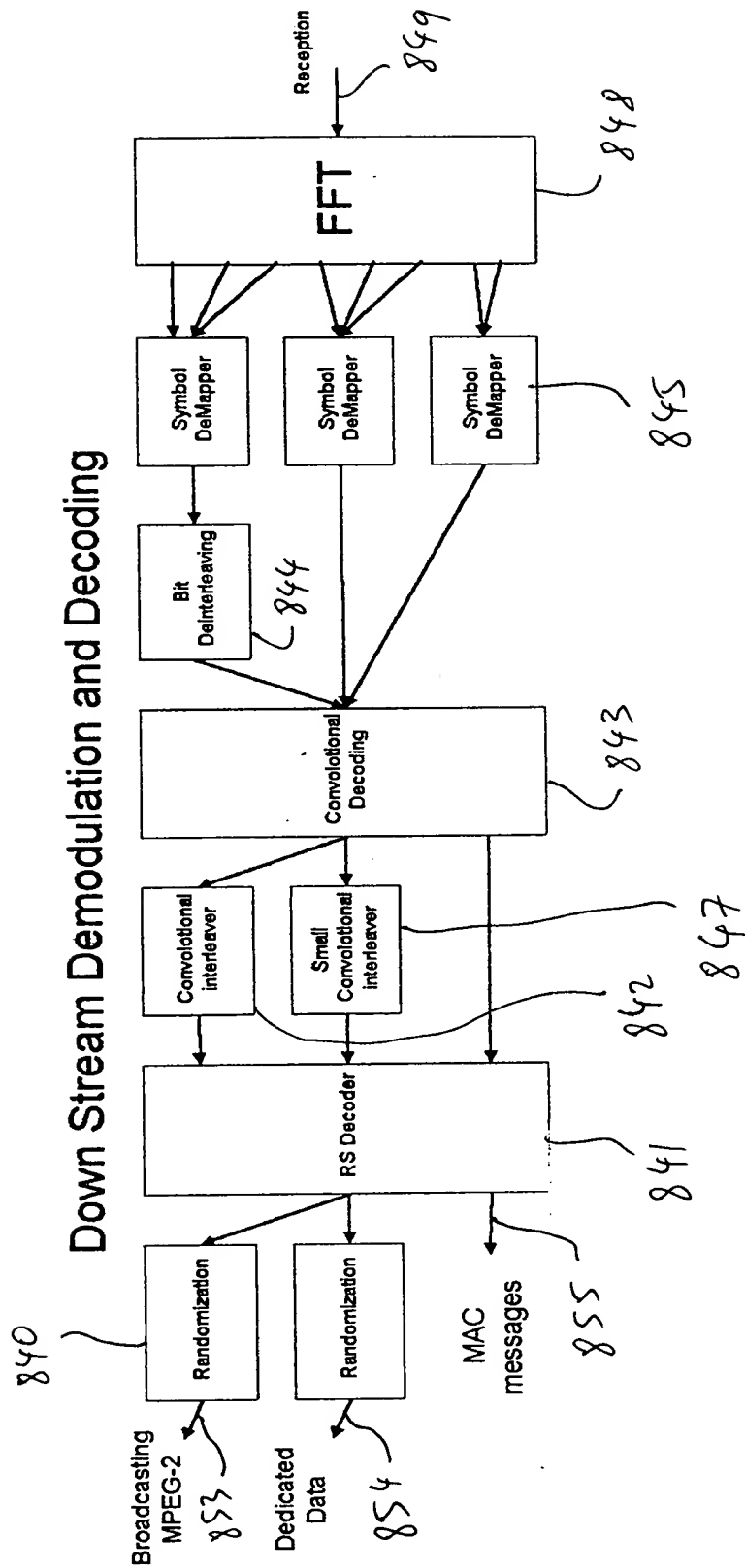


Fig. 8

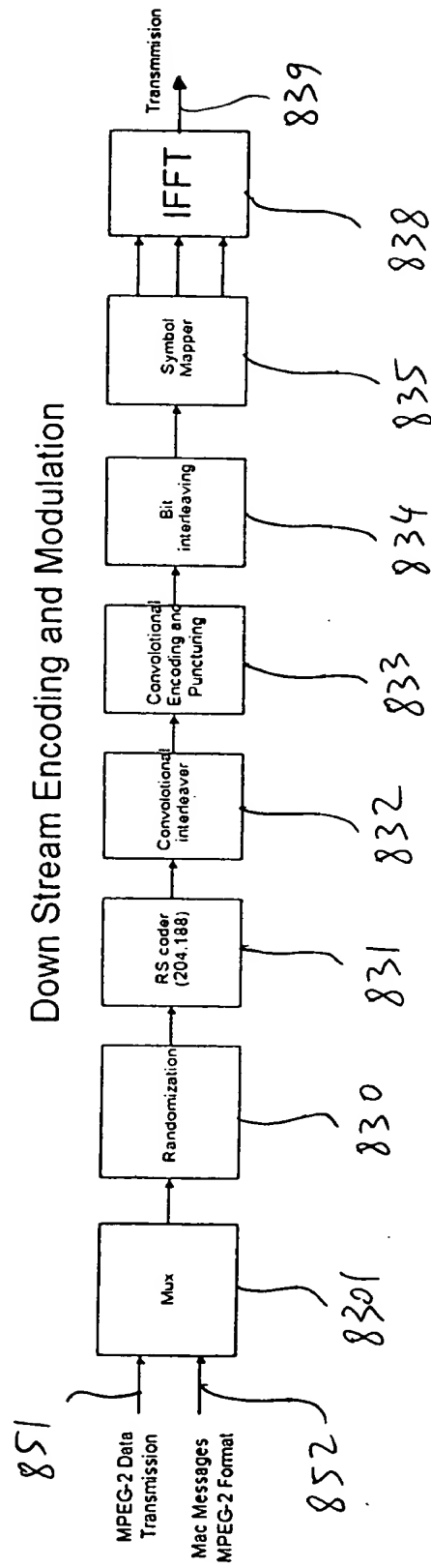


Fig. 9

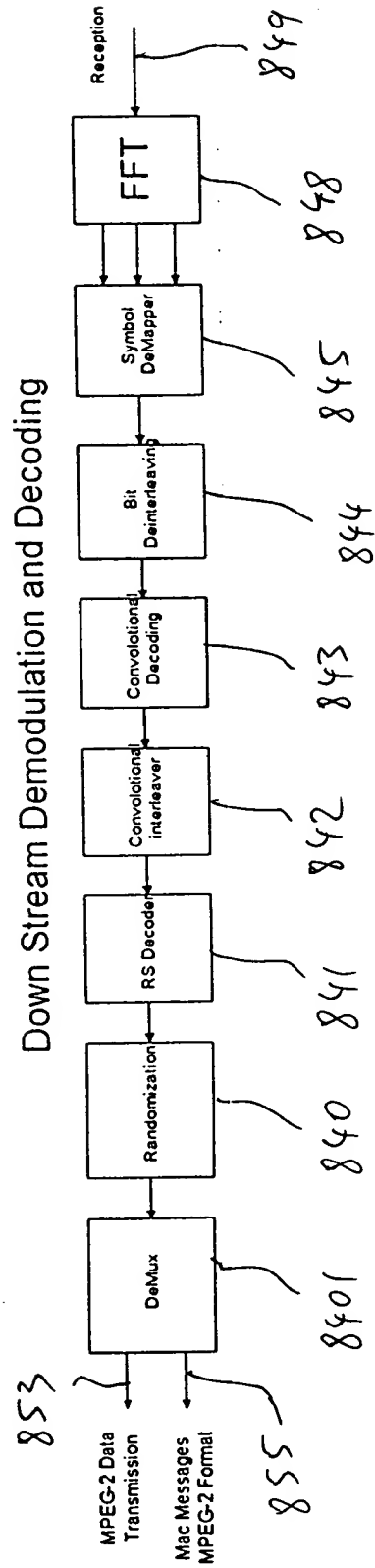


Fig. 10

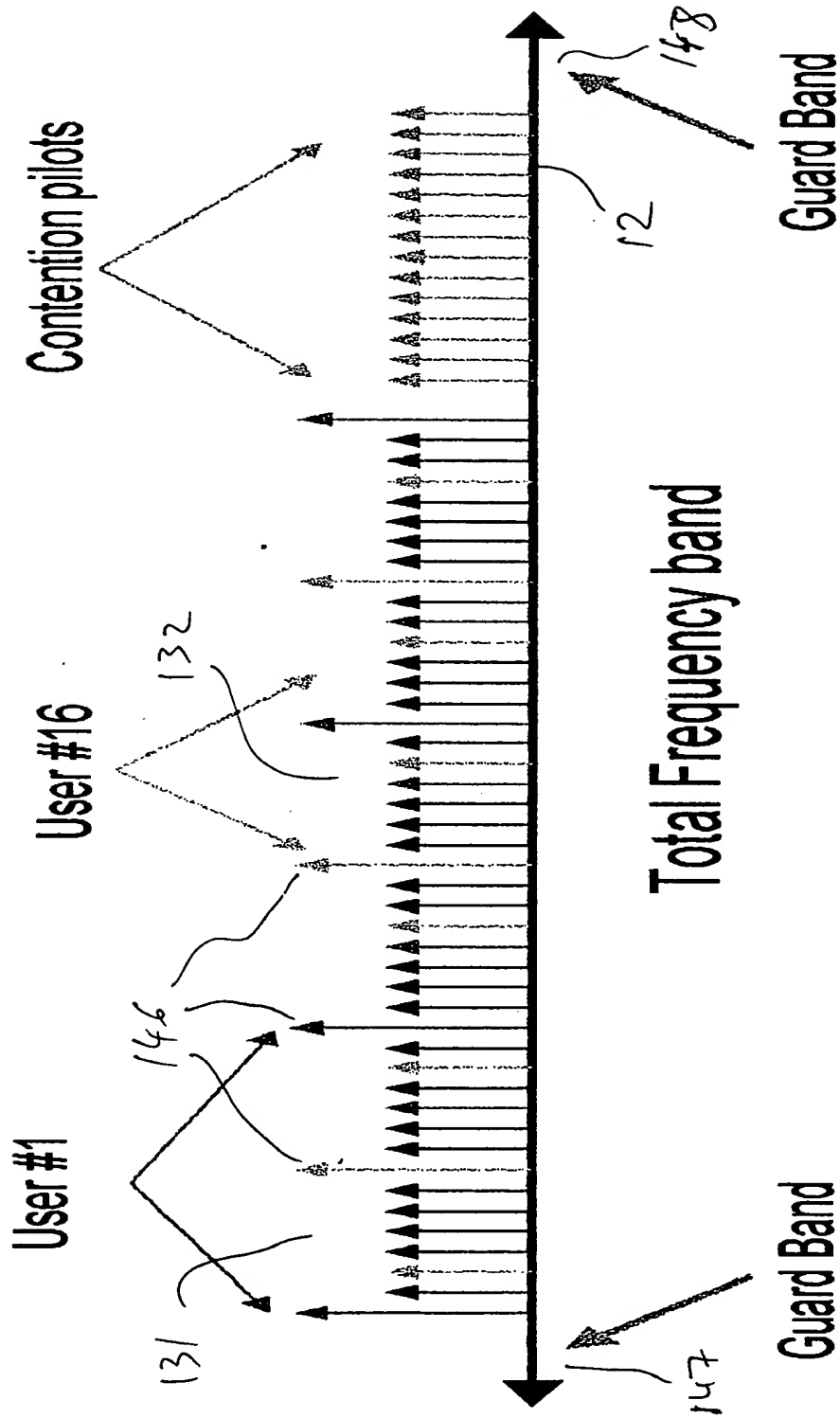


Fig. 11

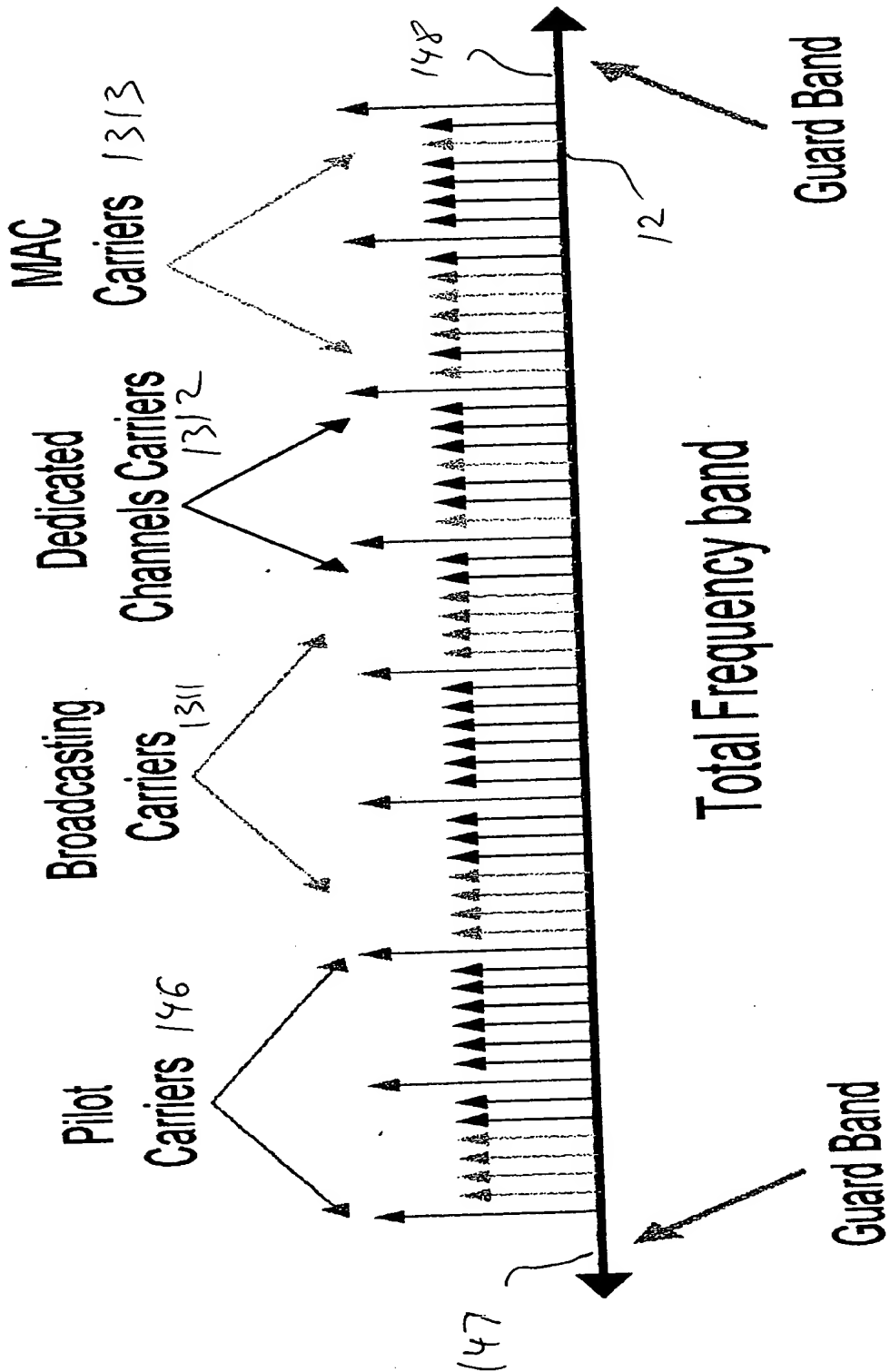


Fig. 12

Narrowband Interference Rejection

- User SubCarriers Blocks are Allocated by IFFT & FFT .
- Easy to Avoid/Reject Narrowband Dominant Interference .
- Less Interfered Part of the Carrier Can Still Be Used .

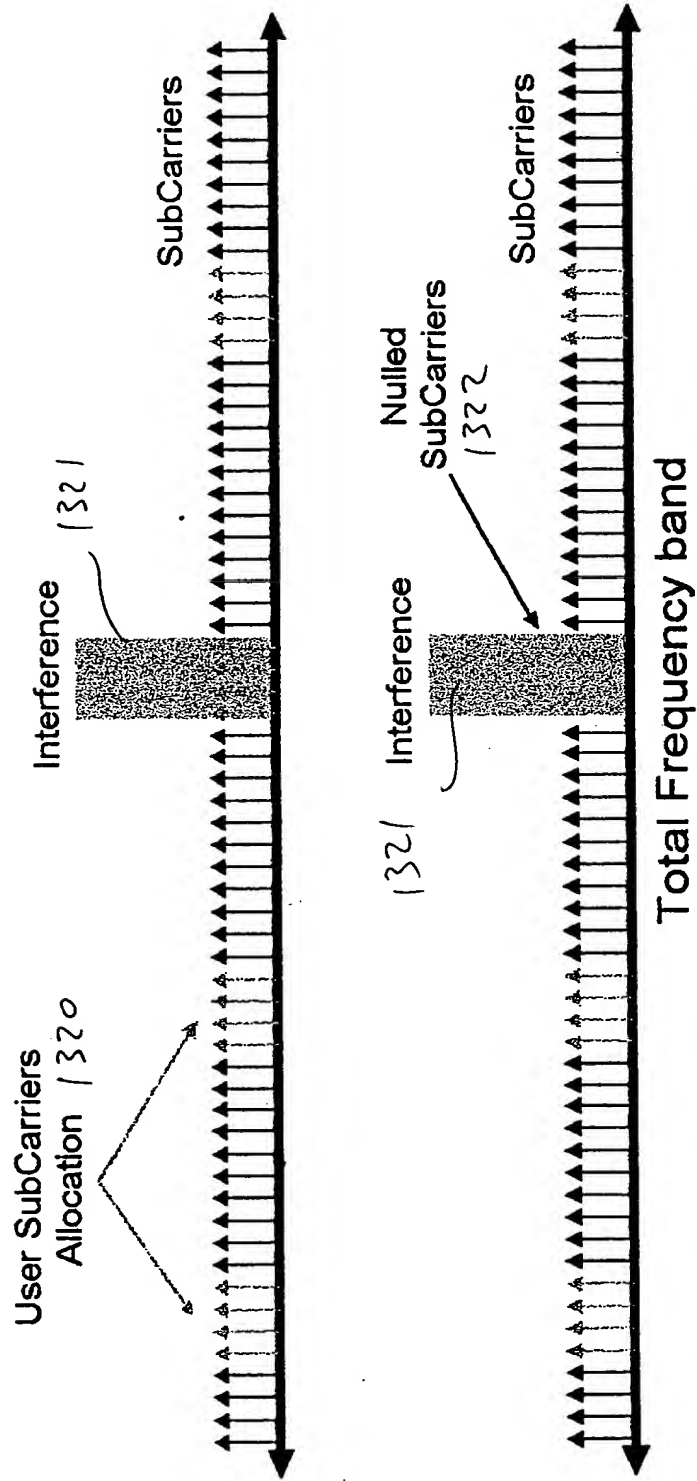


Fig. 13

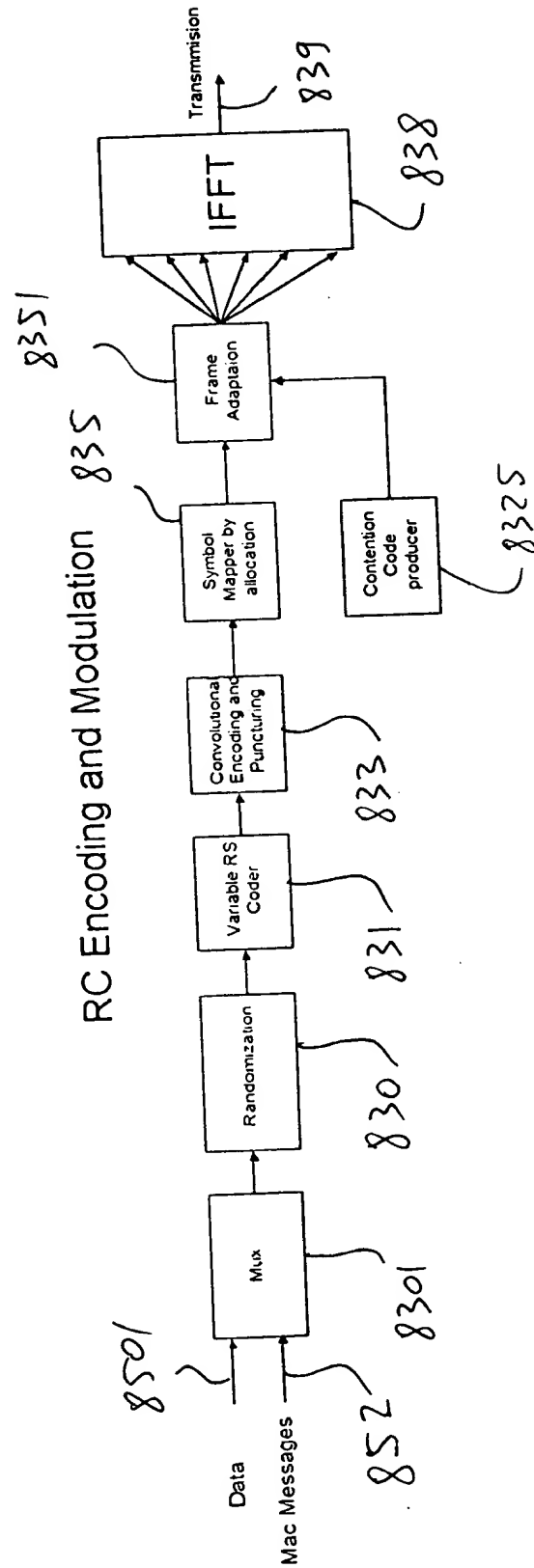


Fig. 14

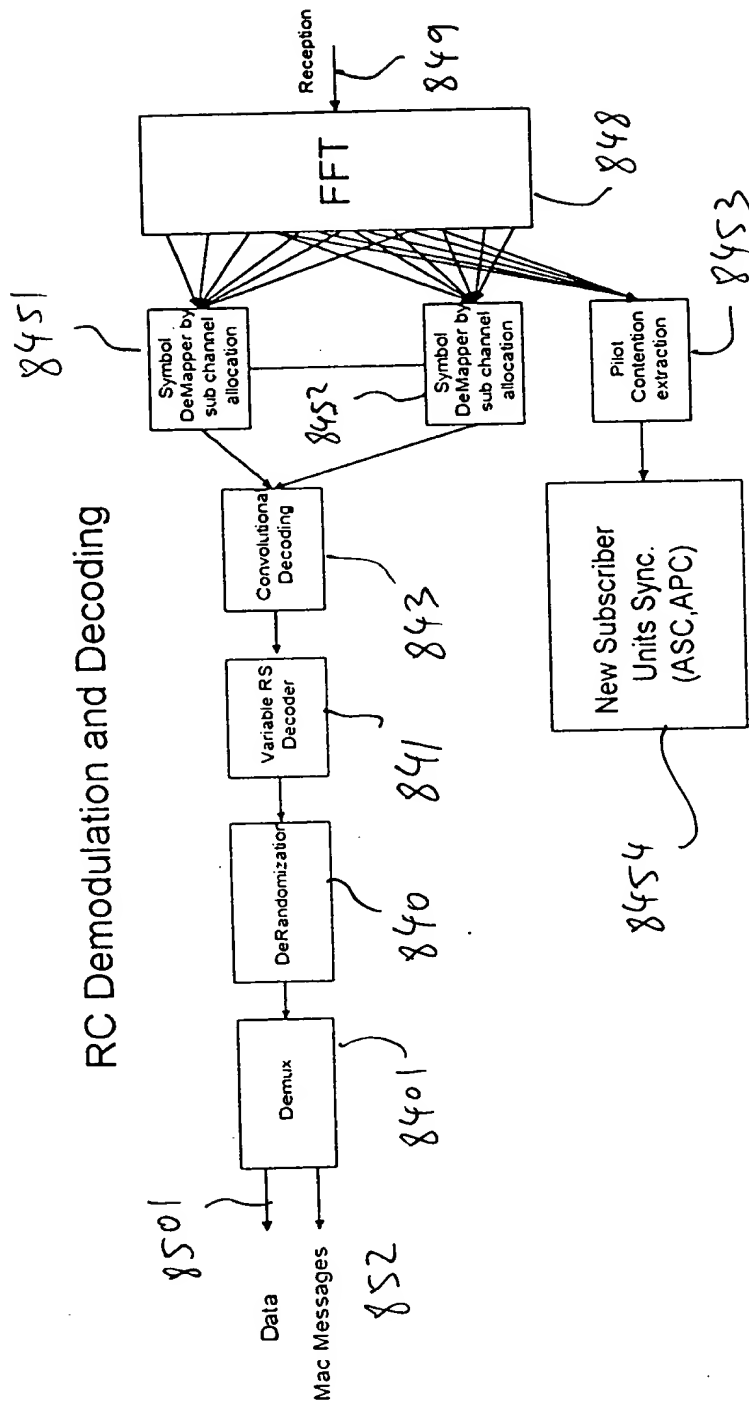
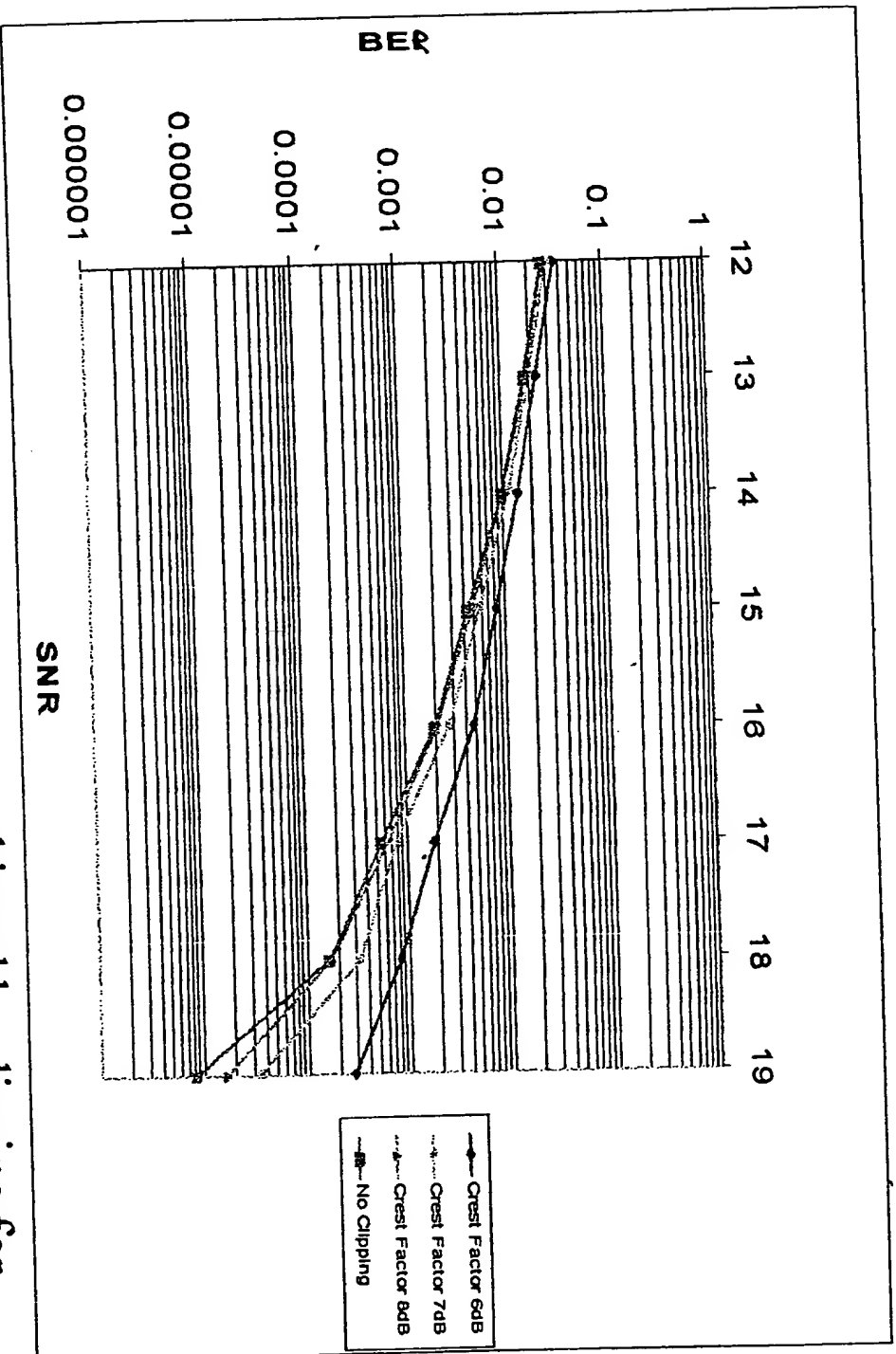


Fig. 15



BER/SNR for different Crest Factor achieved by clipping for
a DVB-T 16QAM OFDM Symbol

Fig. 16

09624237 1072400

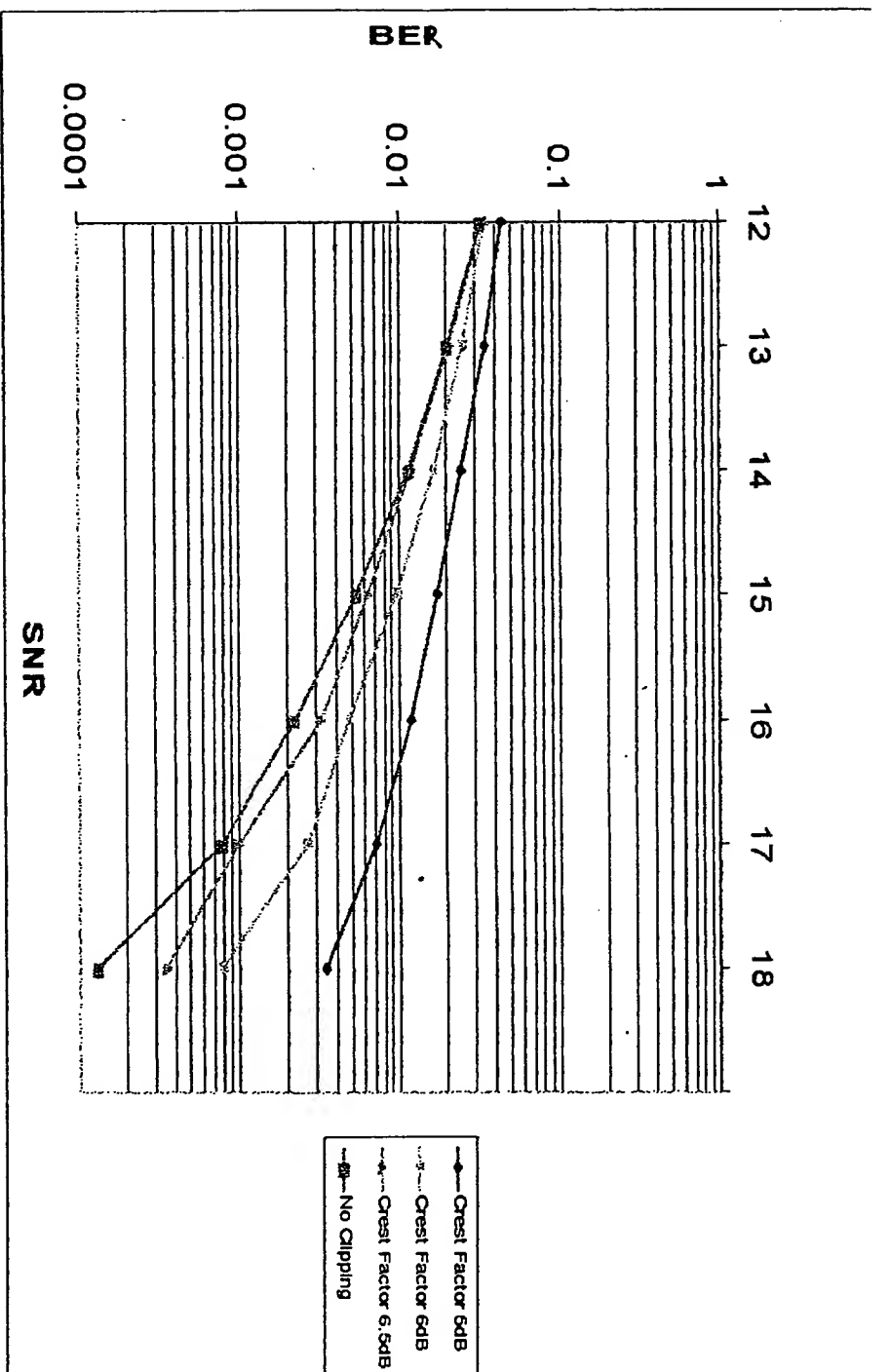


Fig. 17

BER/SNR for different Crest Factor achieved by clipping for
an Up Stream 16QAM OFDM Symbol

09624237.072400

- Rectangular Spectrum Shape (Brick Wall)
- Small Frequency Guard band

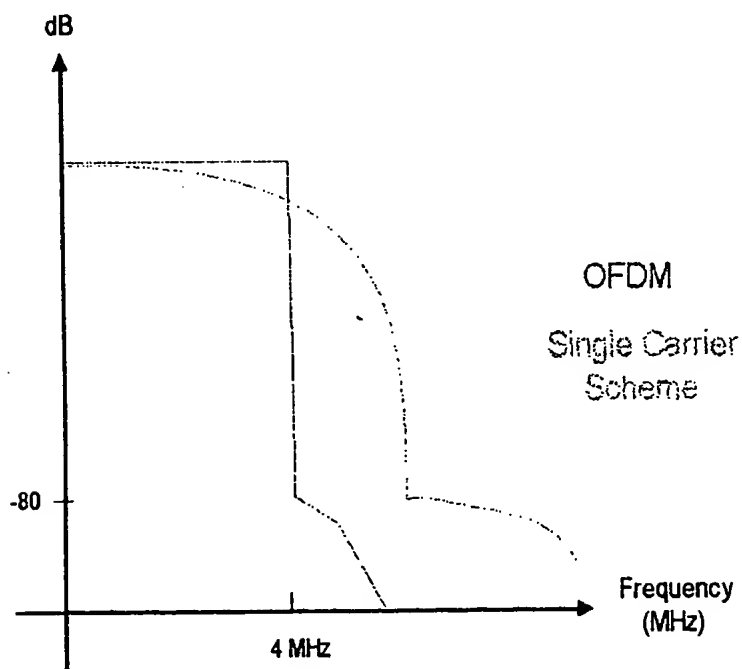


Fig. 18

Power level measured in a 4 kHz bandwidth,
where 0 dB corresponds to the total output power

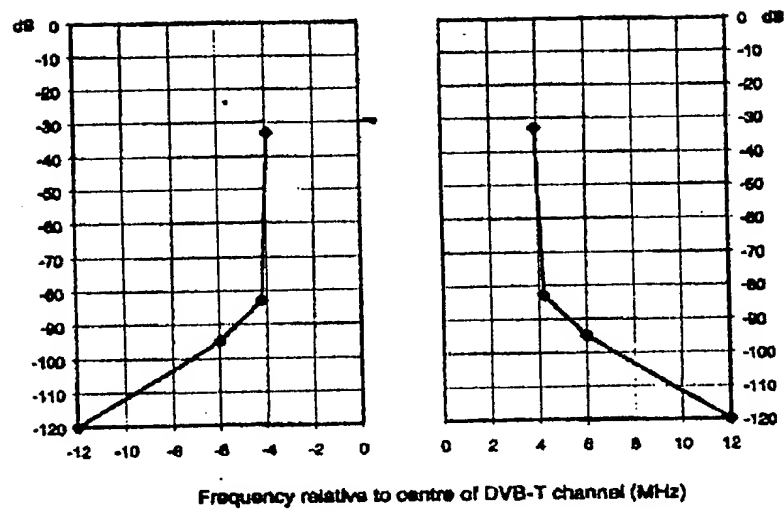
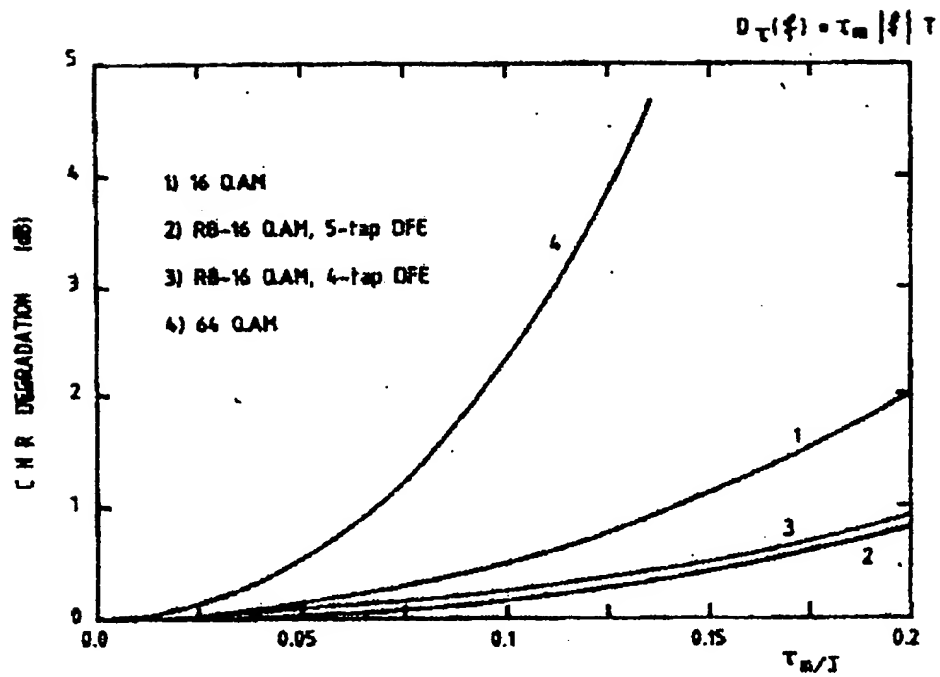
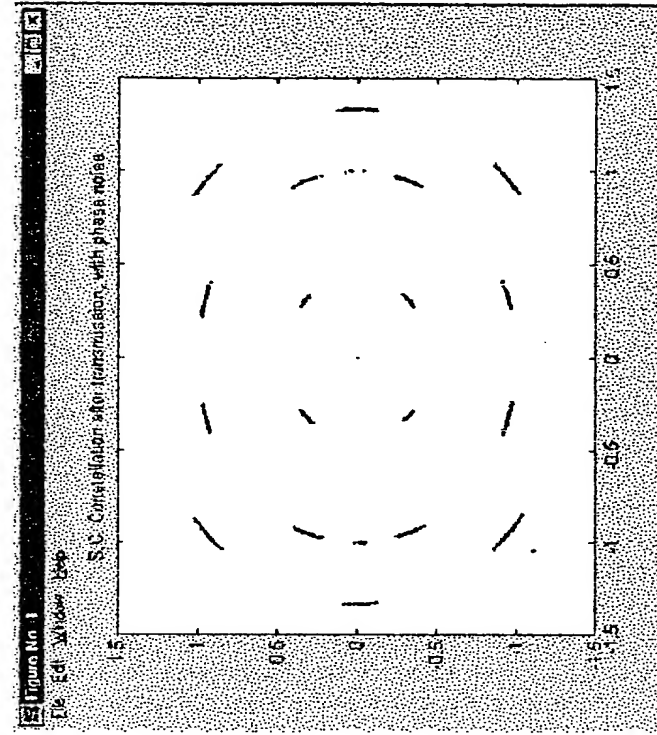


Fig. 19



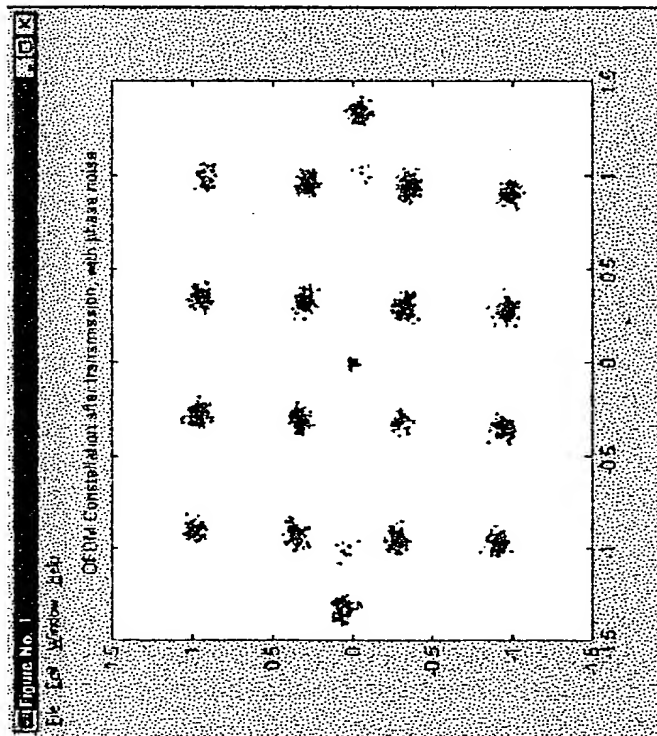
Influence of linear group-delay distortion on the performance of the three modulation schemes.

Fig. 20



Phase Noise Effect on

S.C



Phase Noise Effect on

OFDM

Fig. 21

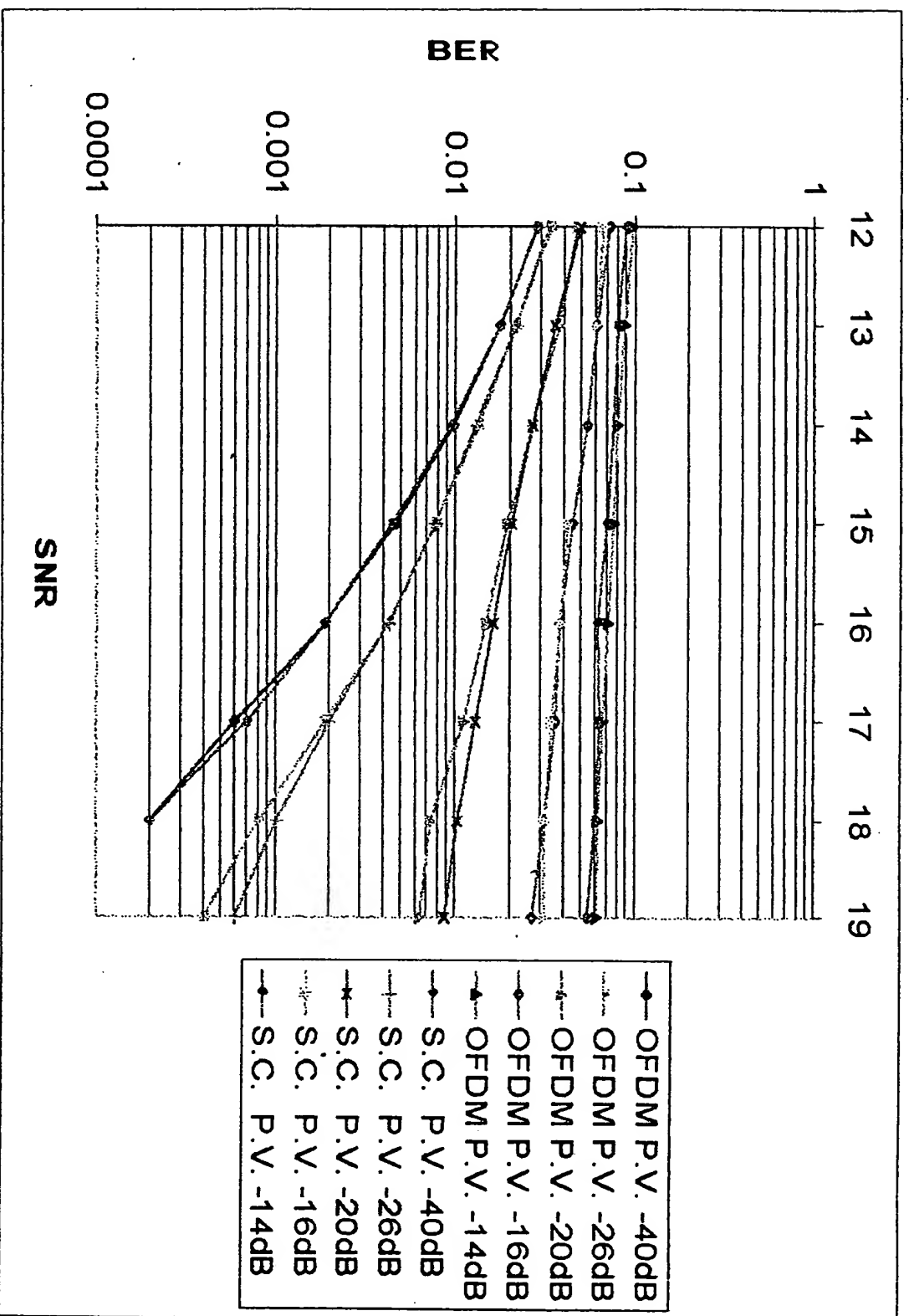


Fig. 22

09624237, 072400

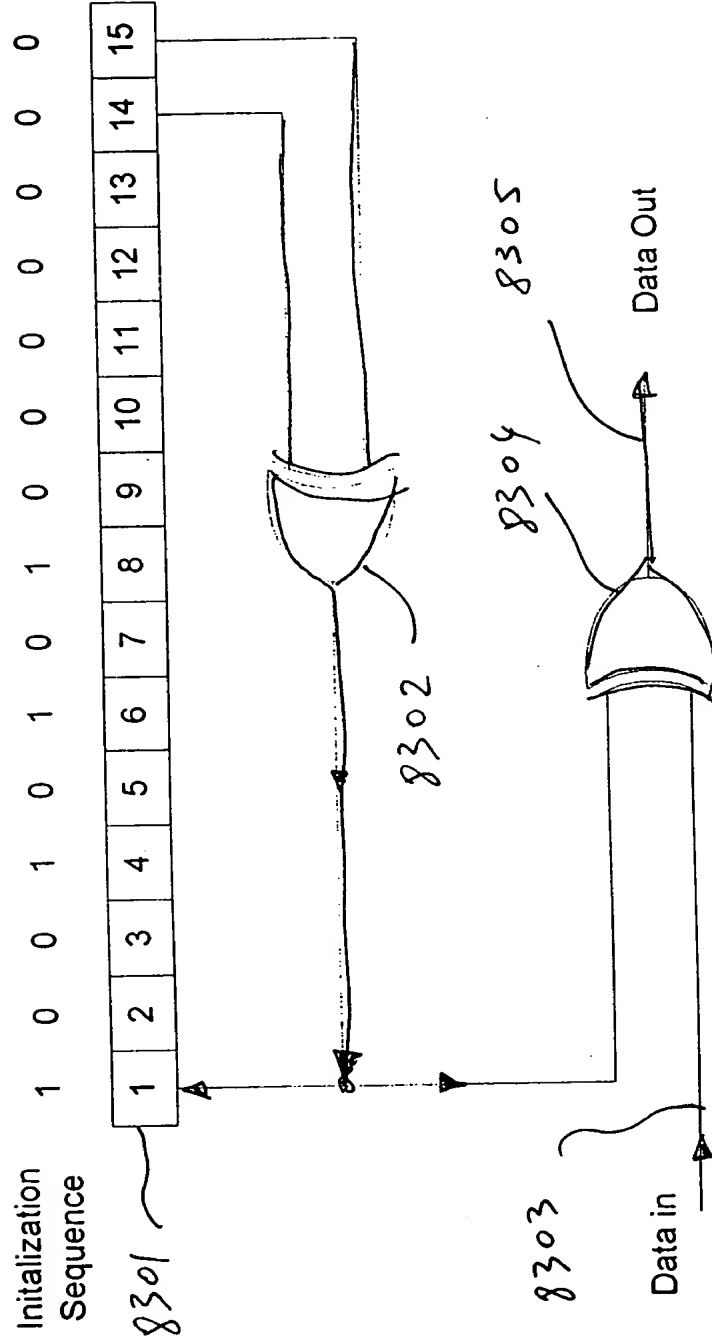


Fig. 23

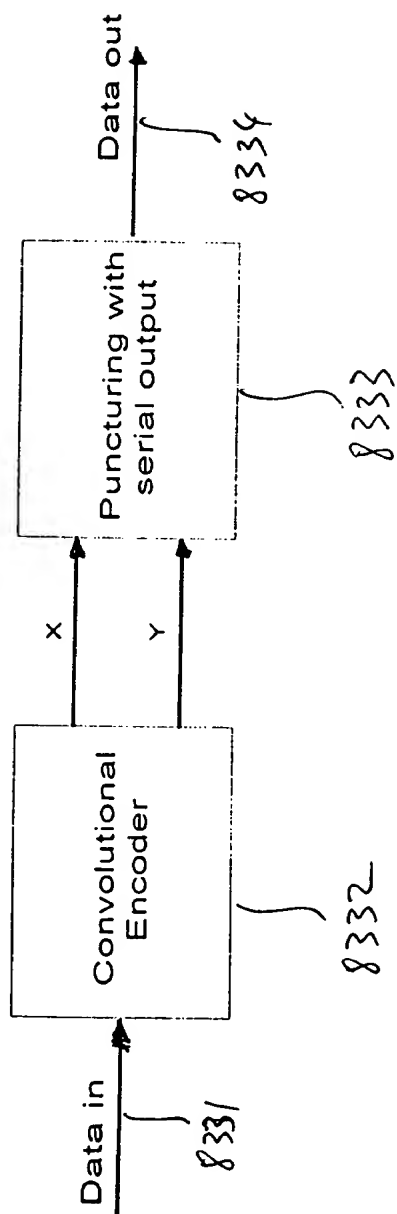


Fig. 24

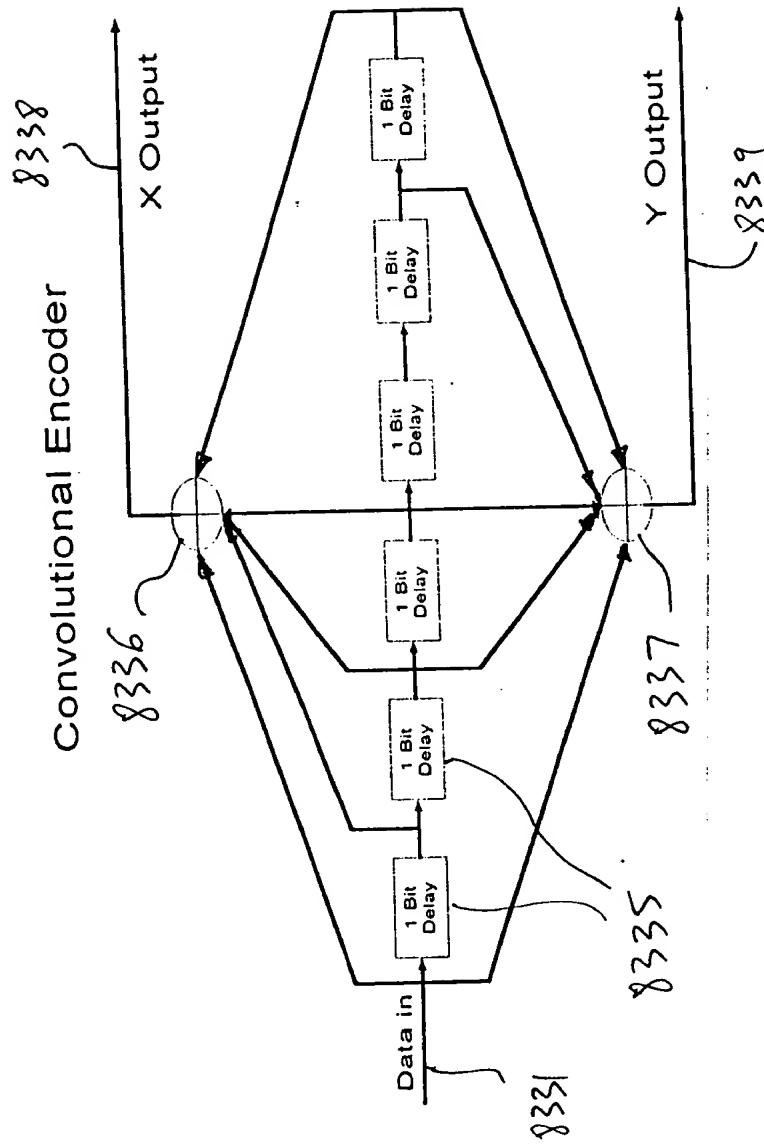


Fig. 25

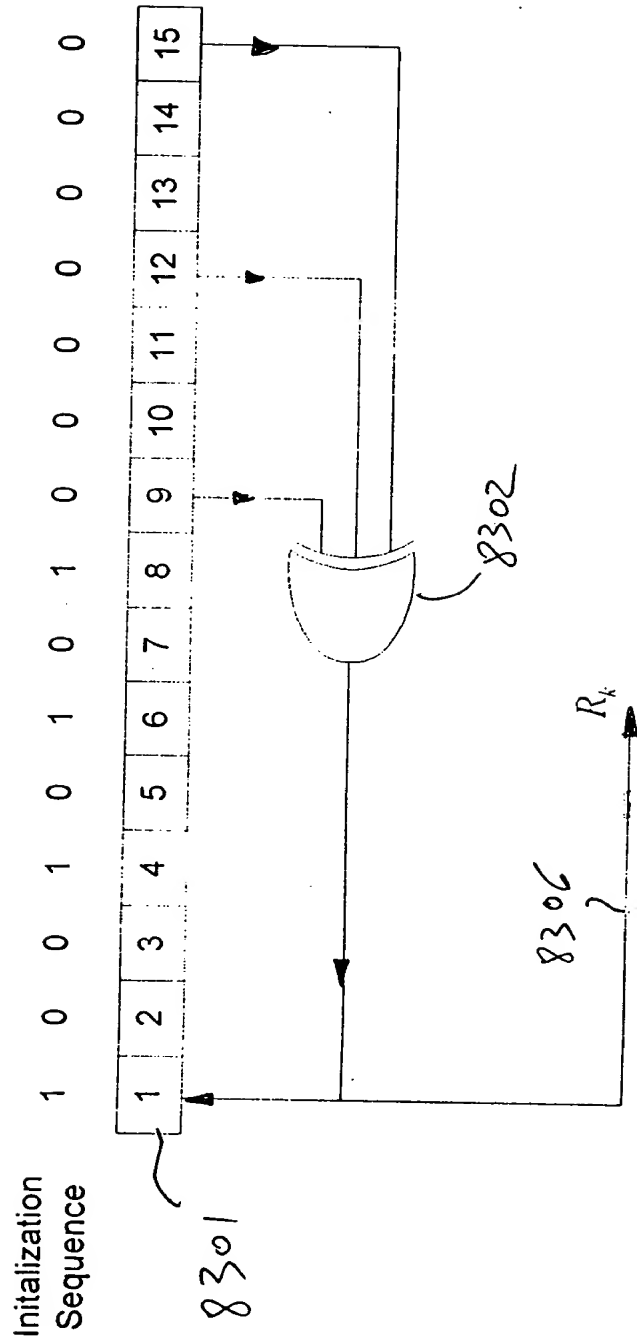


Fig. 26

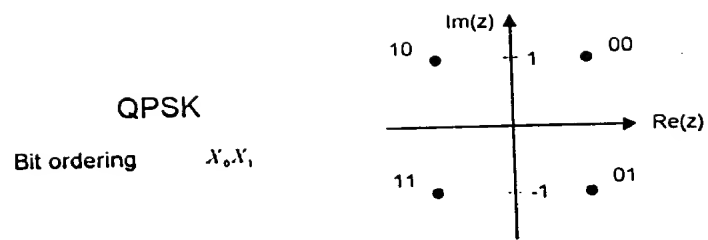


Fig. 27

00427072400

16QAM

Bit ordering X_0, Y_1, X_2, Y_2

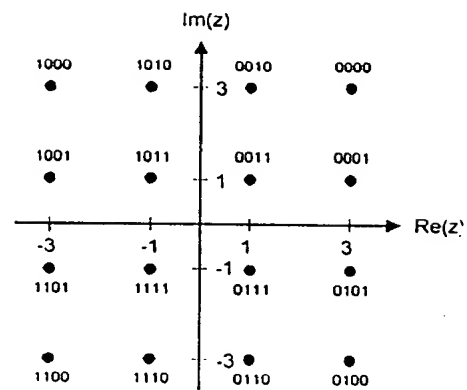


Fig. 28

64QAM
Bit ordering $X_0, X_1, X_2, X_3, X_4, X_5$

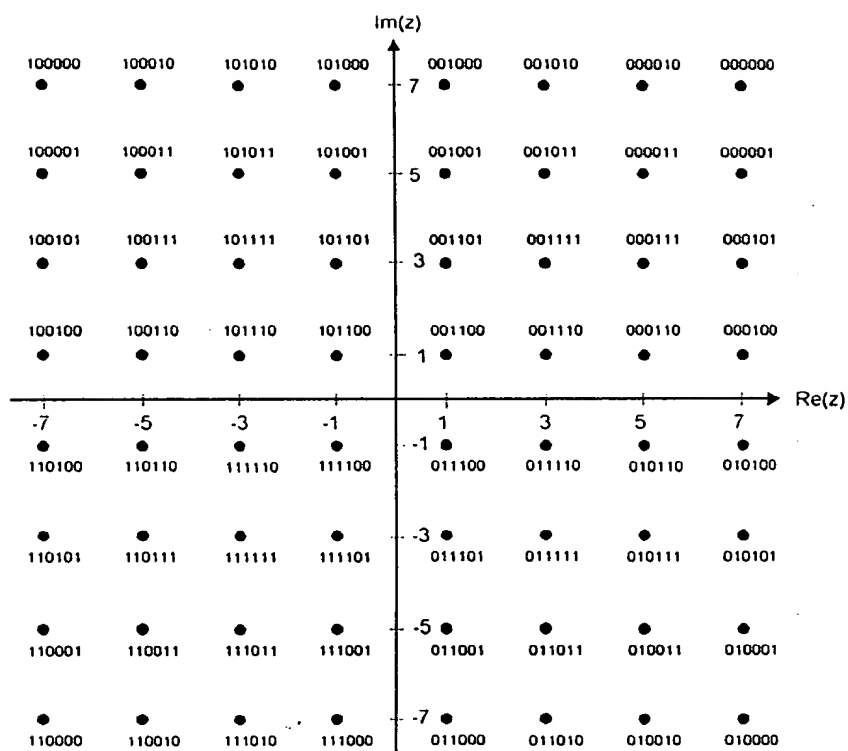


Fig. 29

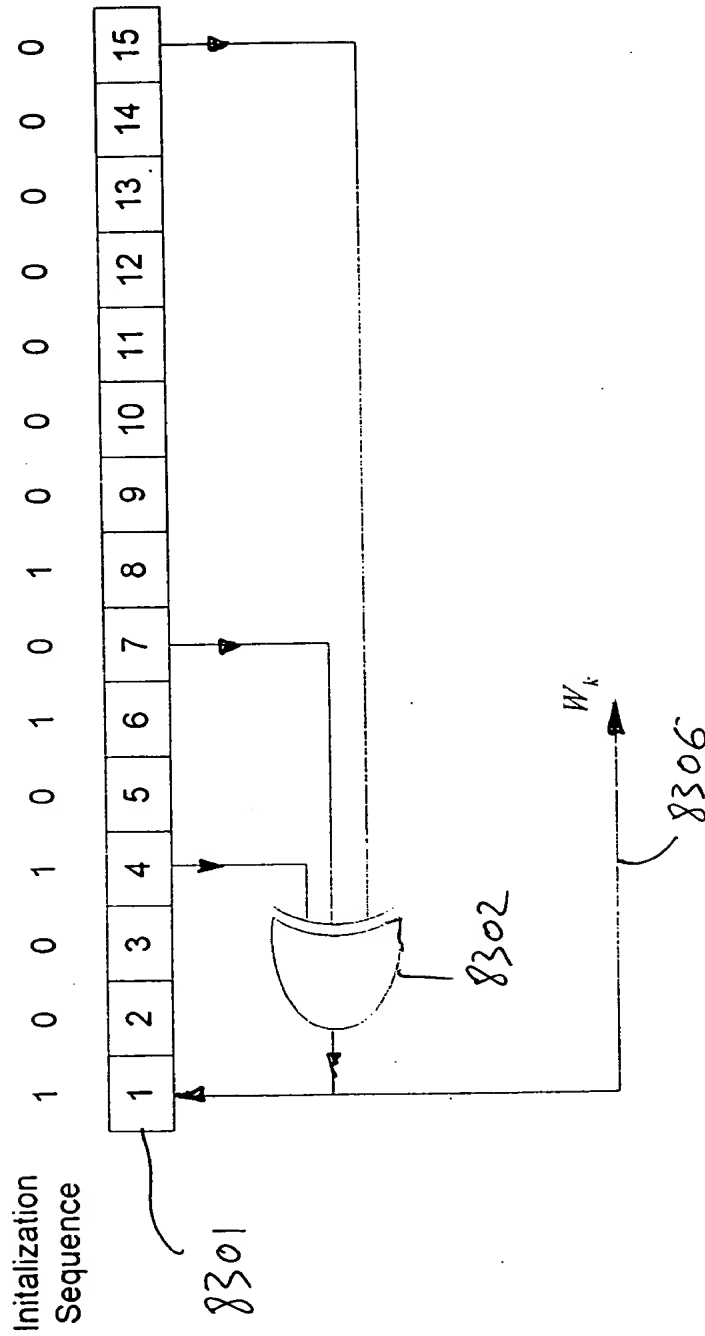


Fig. 30

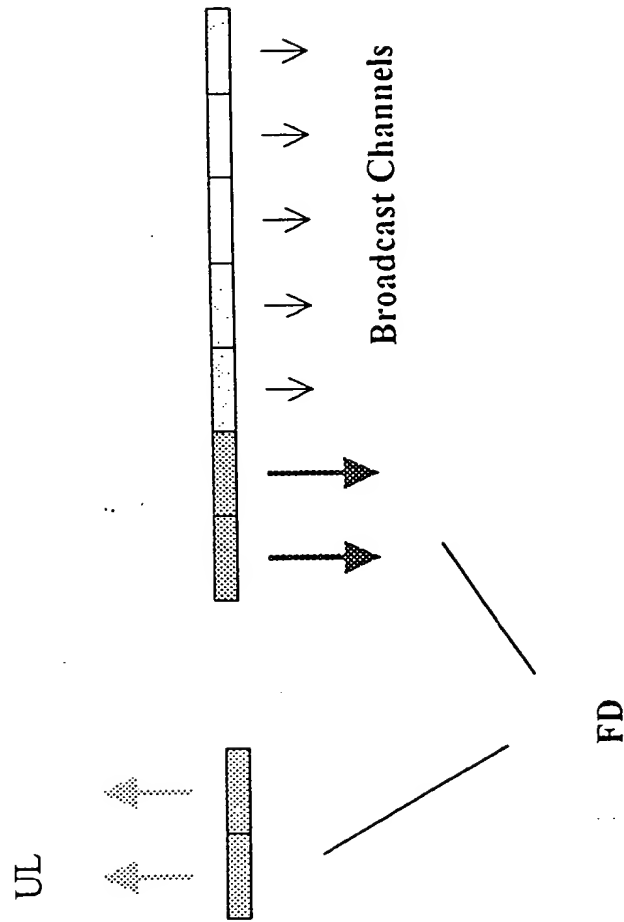


Fig. 31

004220" 4E242950

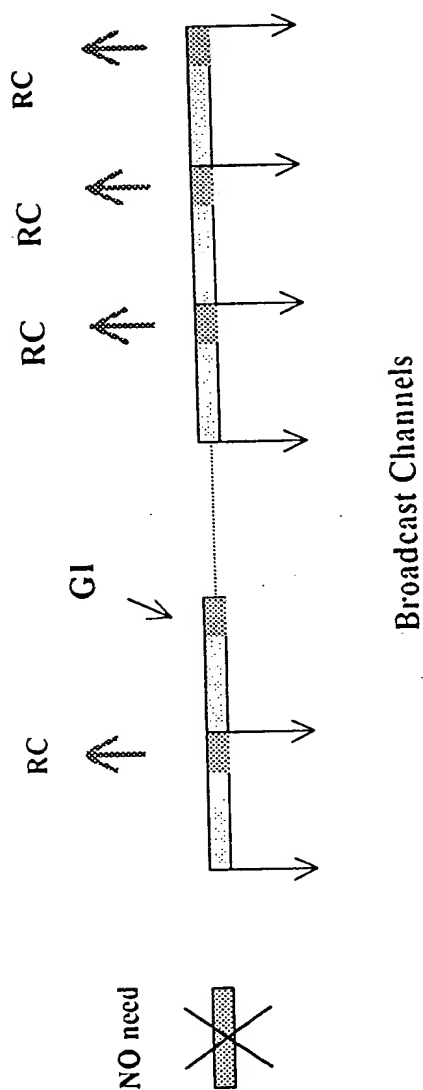


Fig. 32

004240" E242950

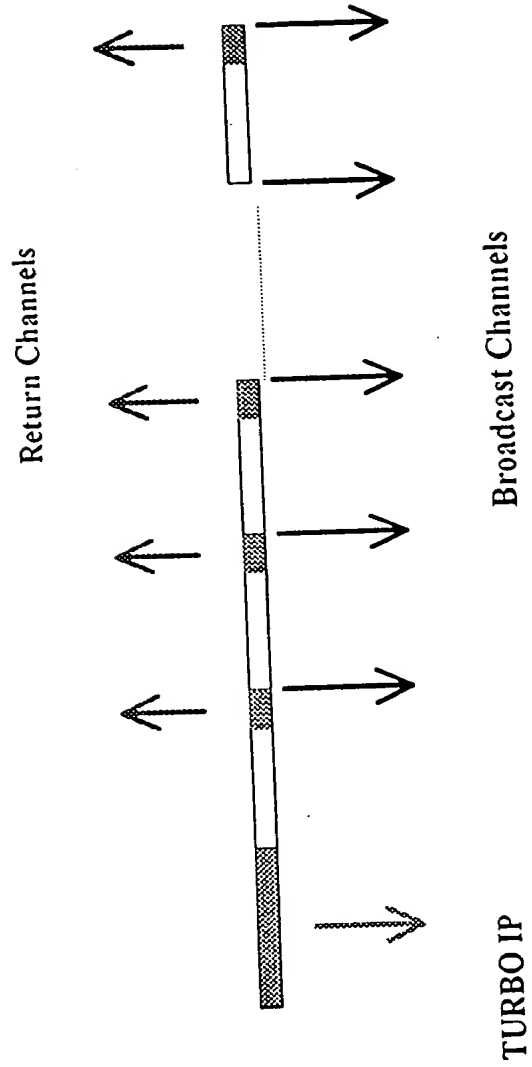


Fig. 33

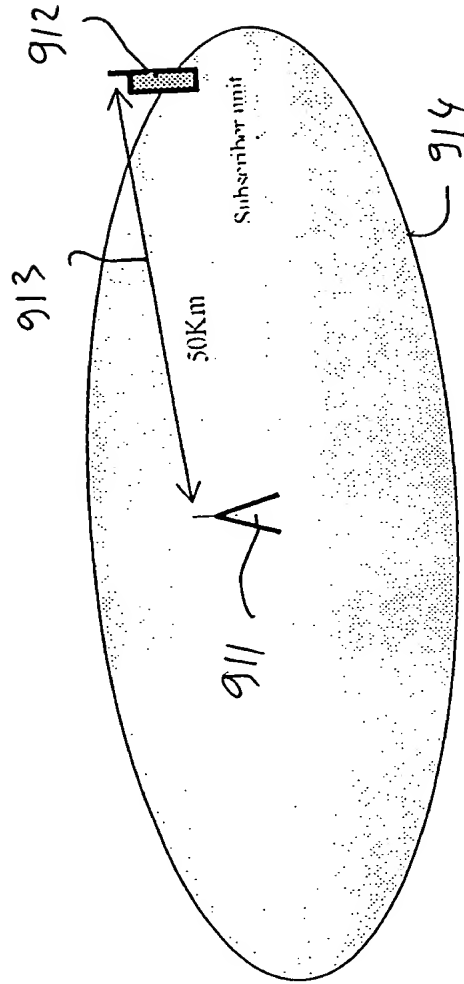


Fig. 35

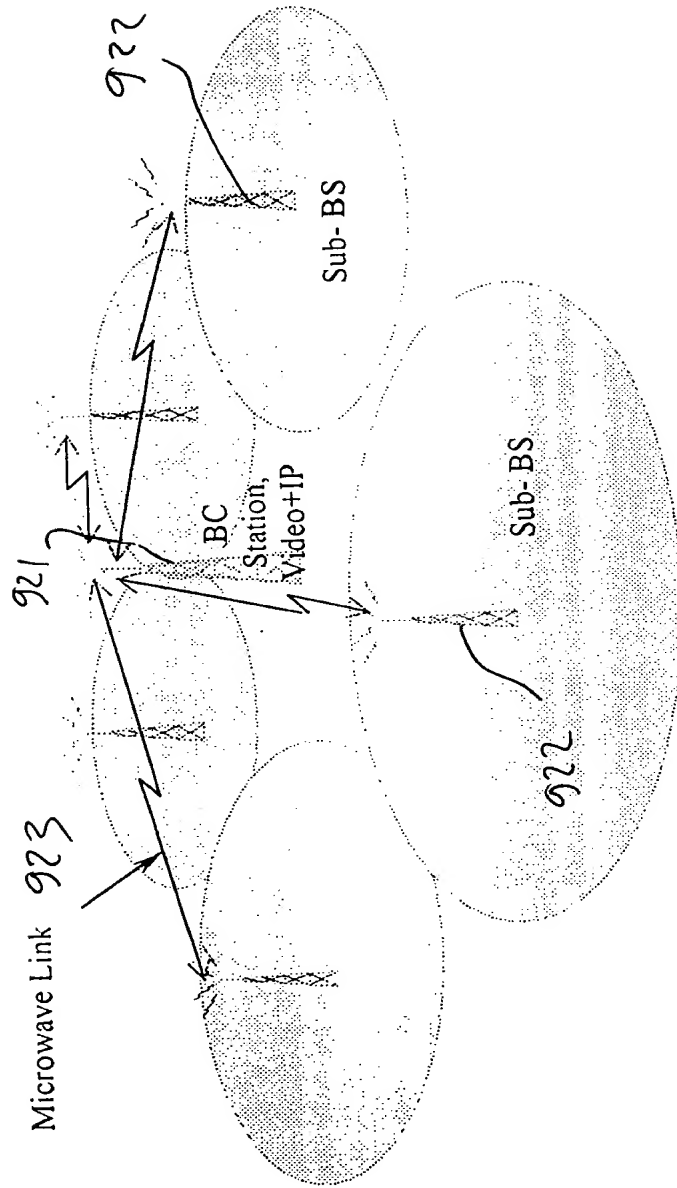


Fig. 36

004220" / E242360

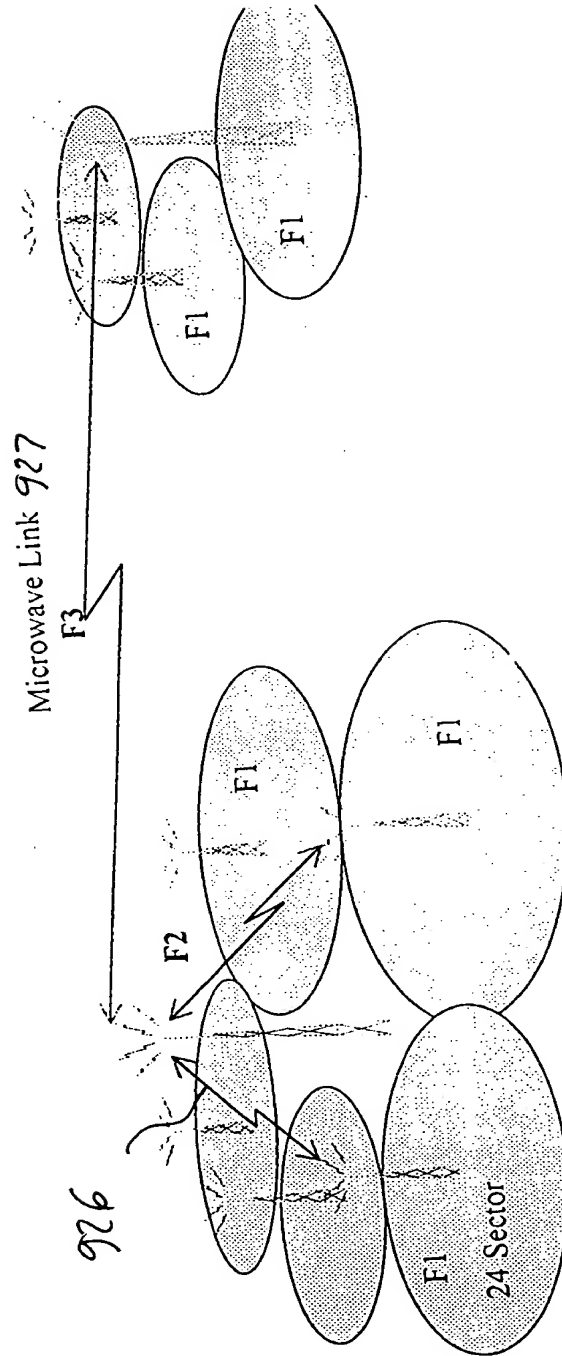


Fig. 37

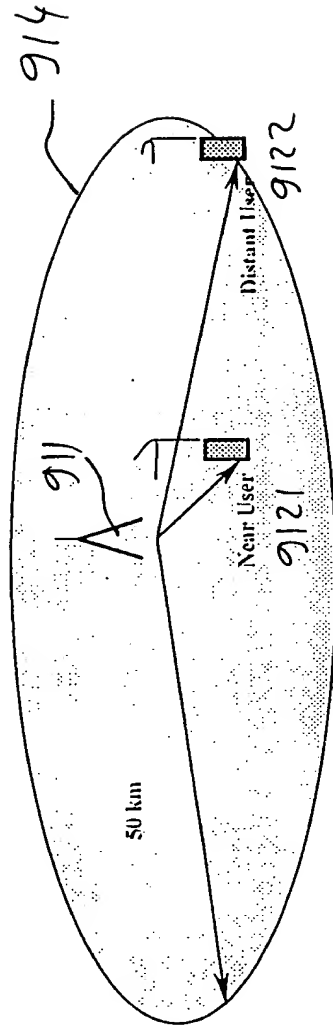


Fig. 38

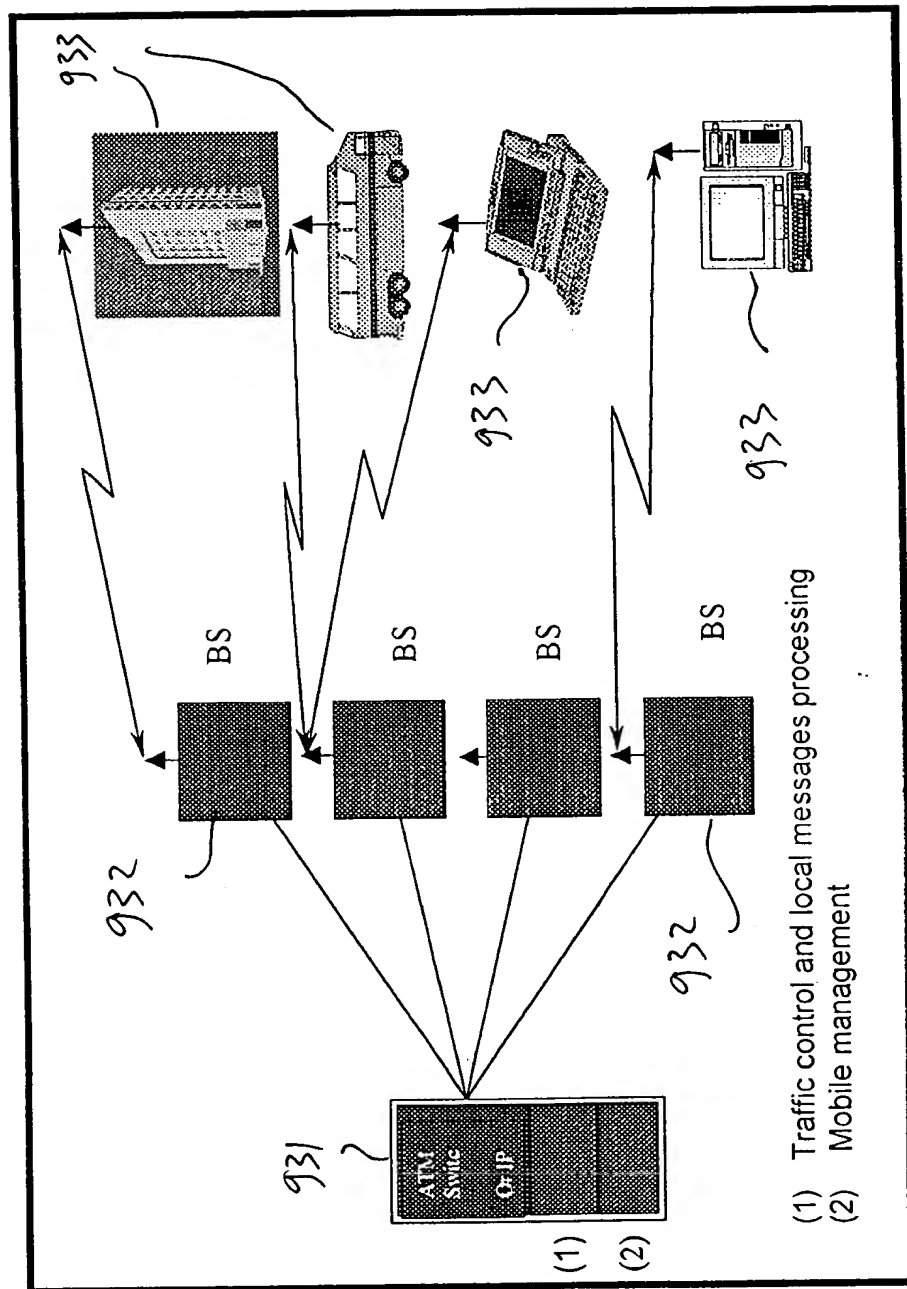


Fig. 39

The Same Data for Mobile and Fixed Users

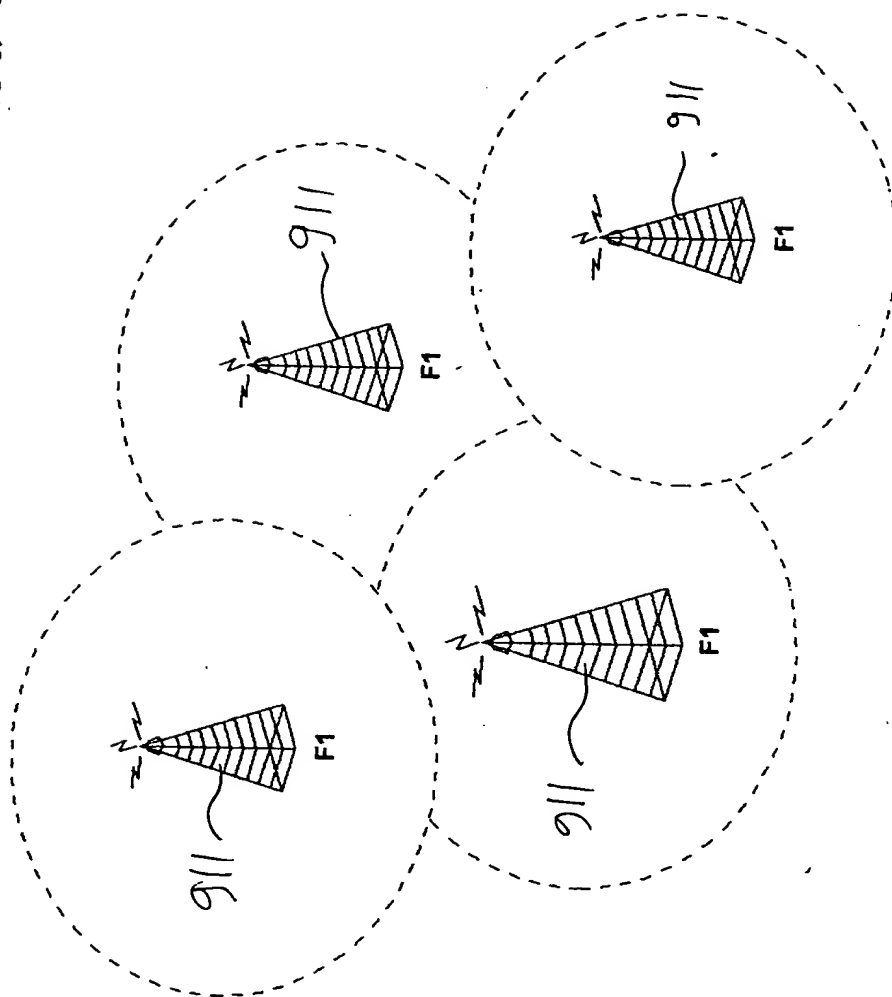


Fig. 40

The Same Data for Mobile and Fixed Users
Where There is a Problem of Coverage, Smaller Cells are Used

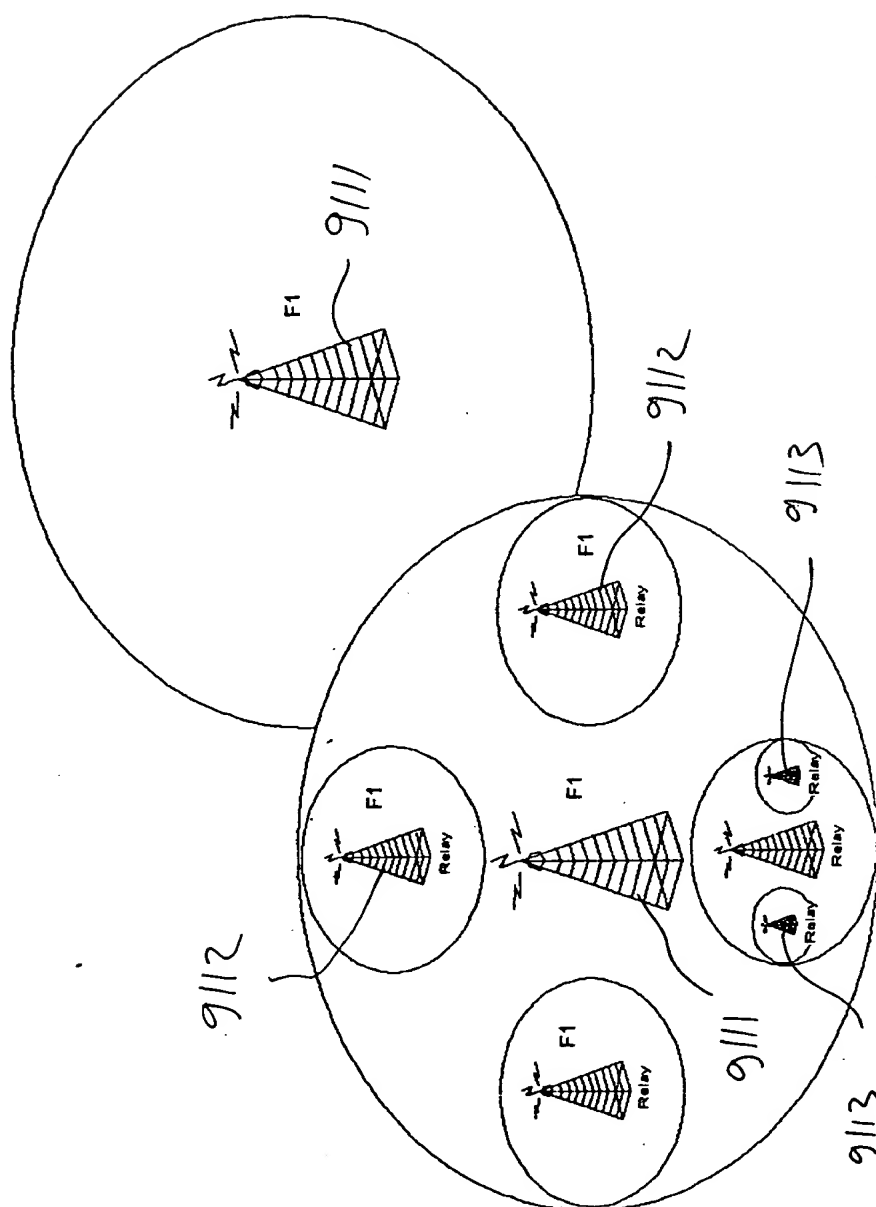


Fig. 41

- Each SFN Enables the Users to Receive Transmissions From Any B.S.
- Users Transmission can be Received by some B.S., While the main B.S. can use MRC.

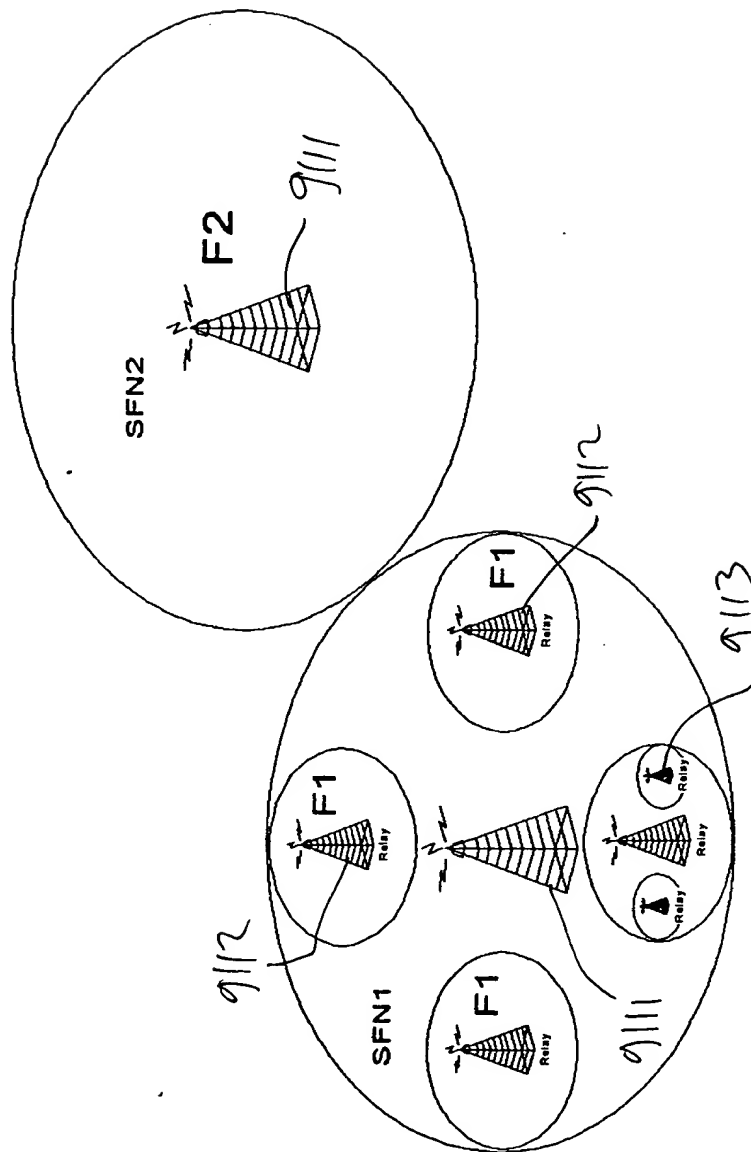


Fig. 42

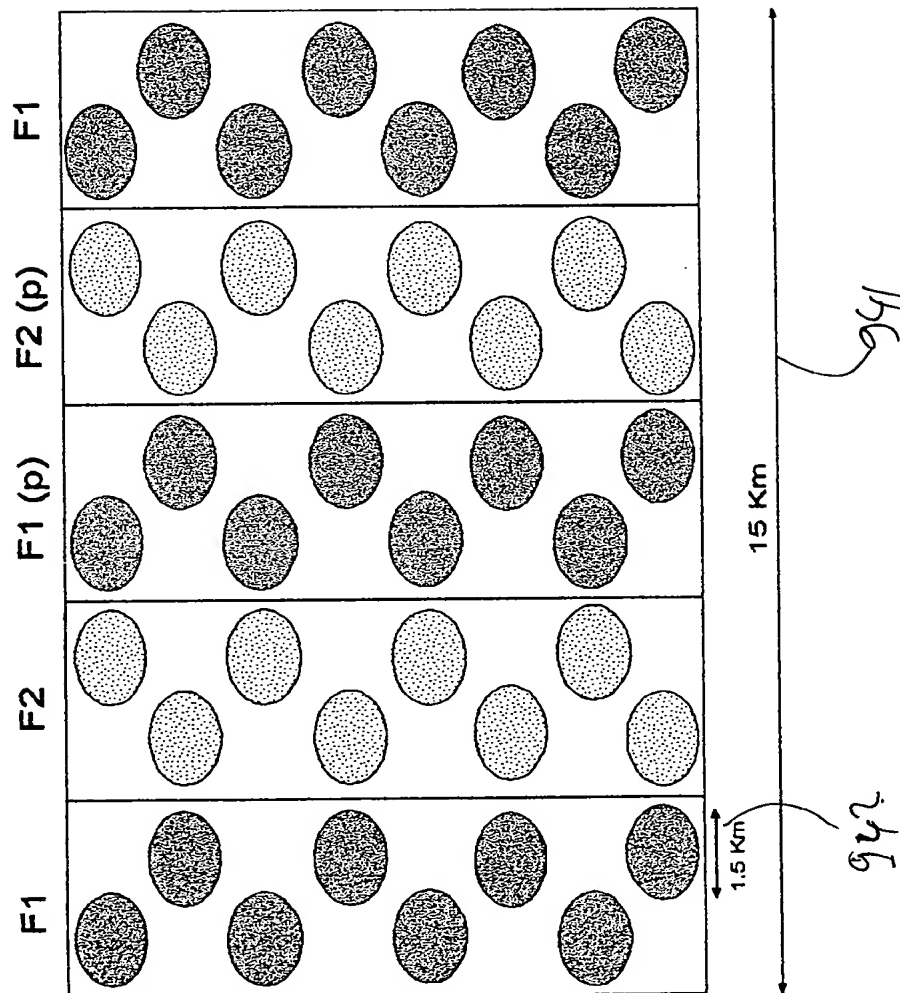


Fig. 43

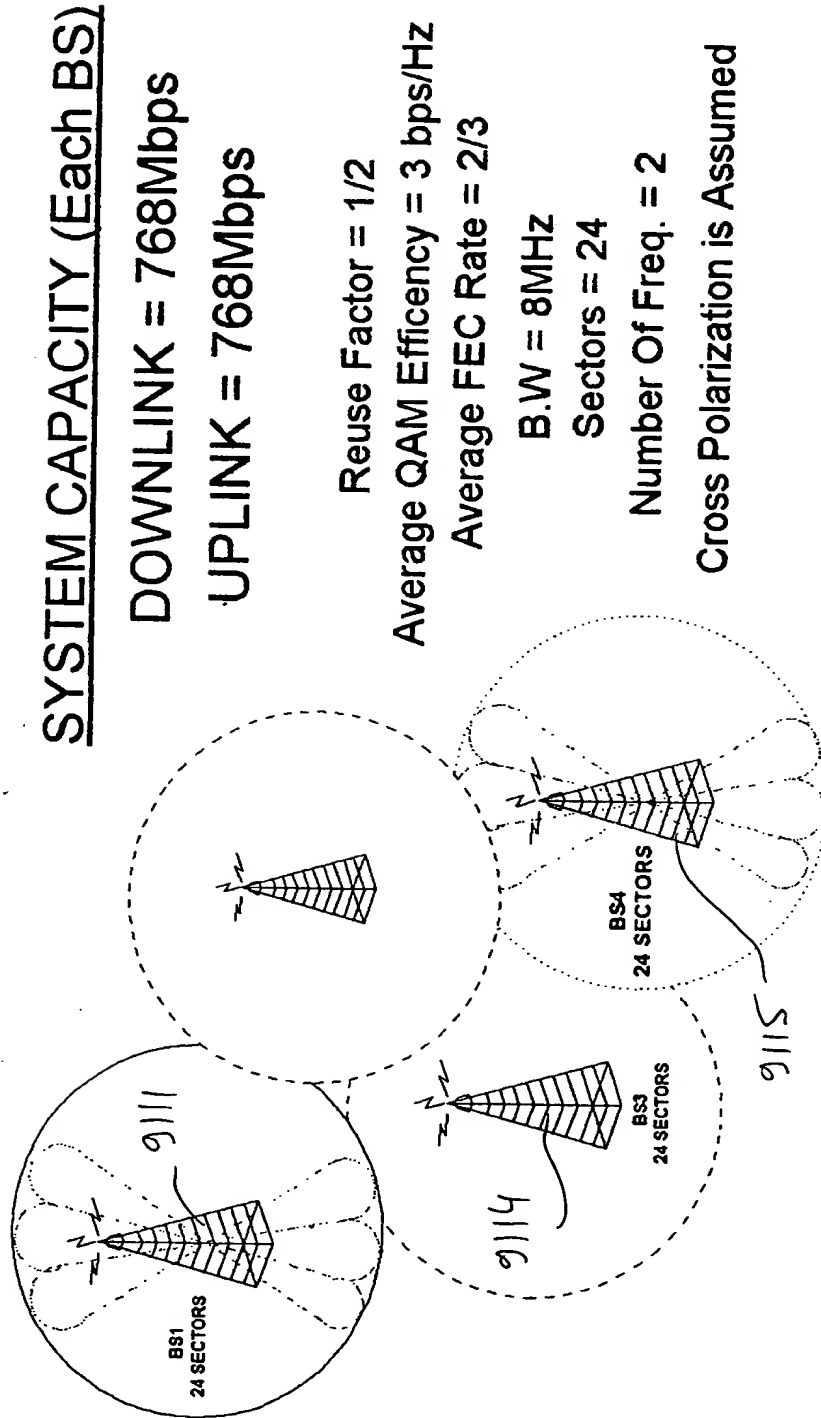


Fig. 44

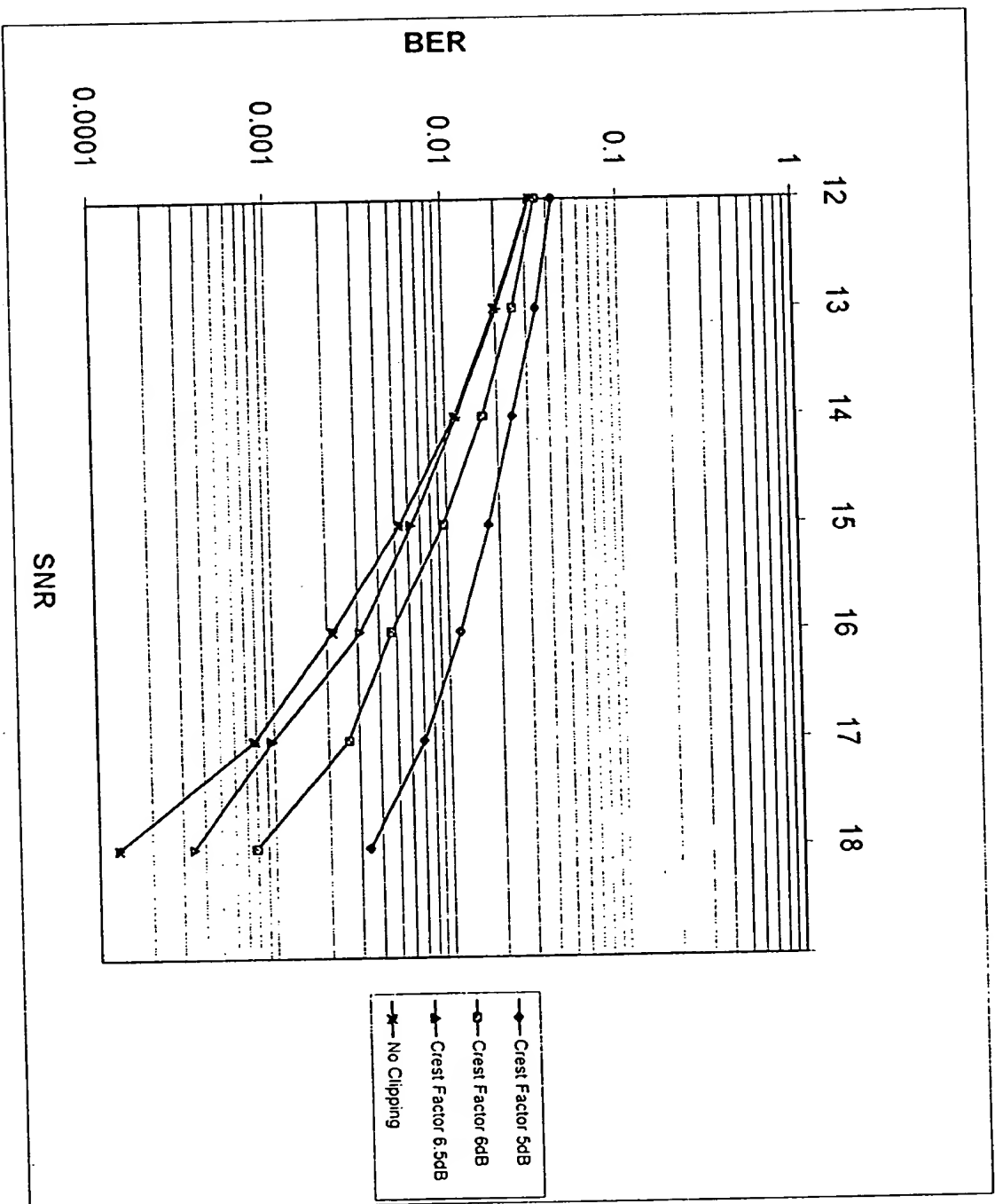


Fig. 45

090624237, 072400

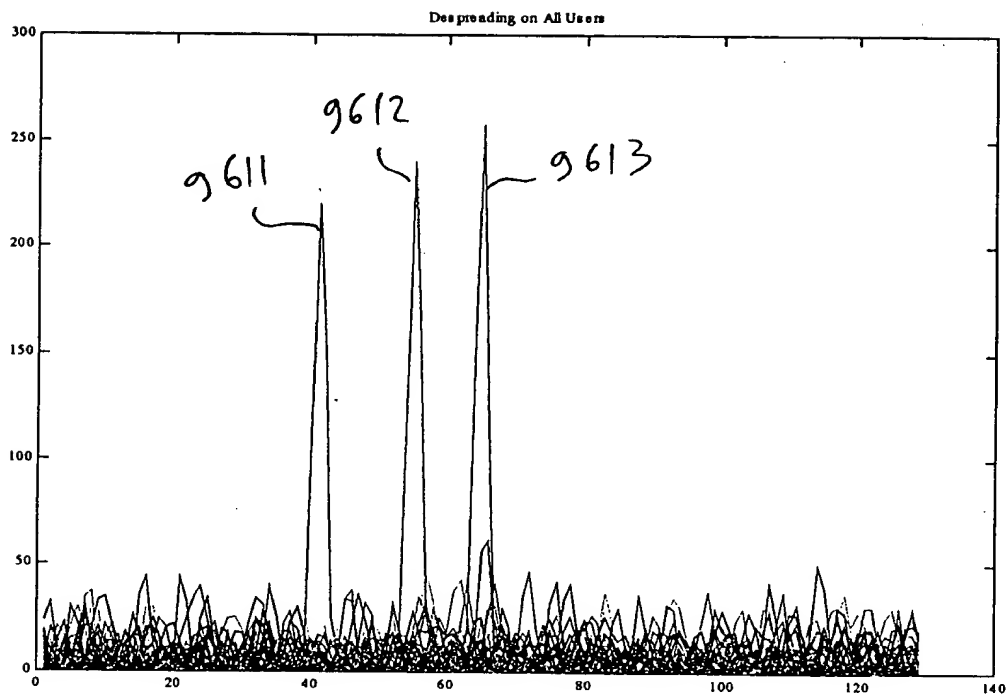


Fig. 46

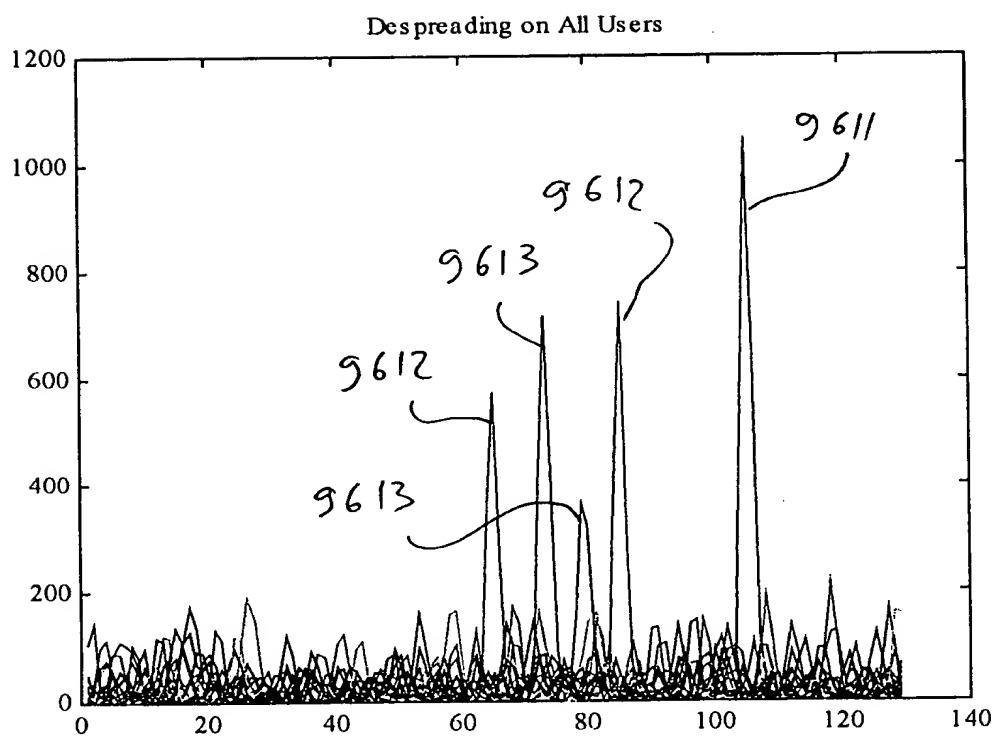


Fig. 47

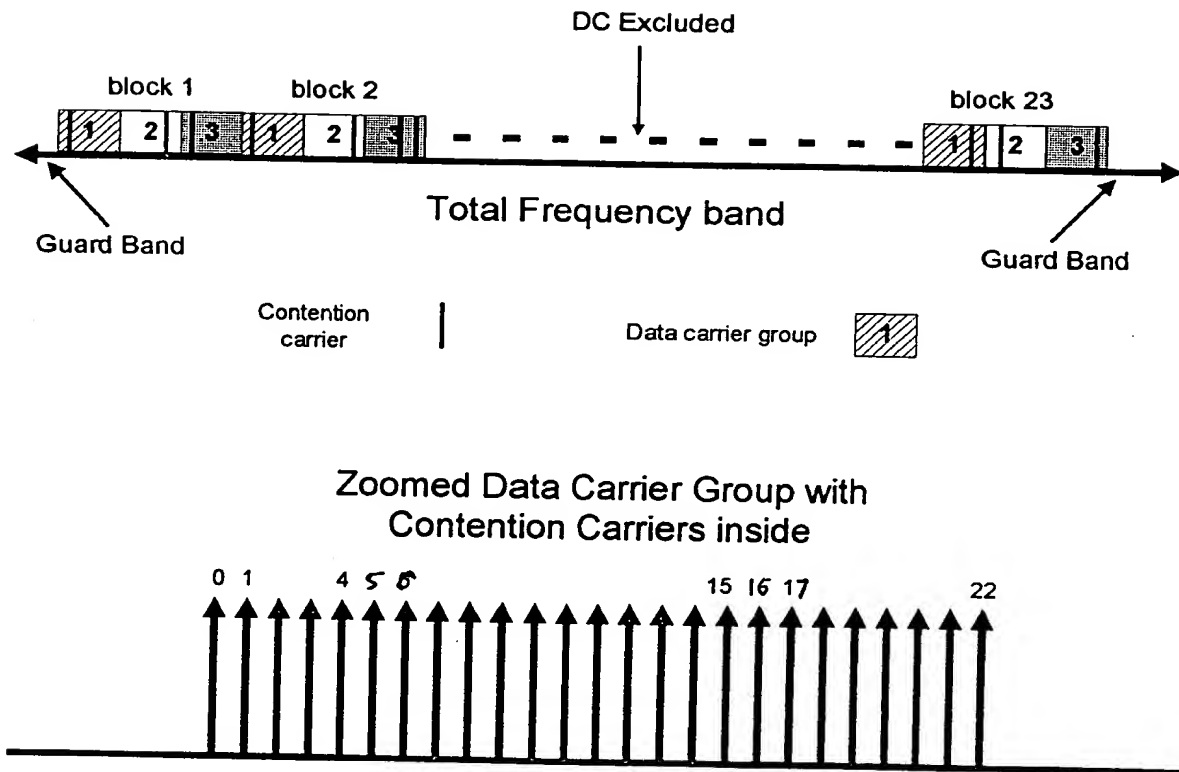


Fig. 48